

G2:C,N

G3:Cb,Hy,Ak,O,S,N,CH2,CH,H

G4:H,CH3

Match level :

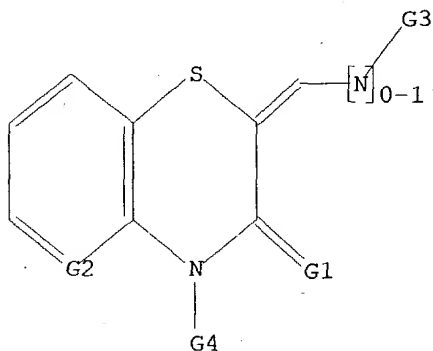
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:CLASS 14:CLASS 16:CLASS 17:CLASS 22:CLASS

L1 STRUCTURE UPLOADED

=&gt; d l1

L1 HAS NO ANSWERS

L1 STR



G1 O,S,N

G2 C,N

G3 Cb,Hy,Ak,O,S,N,CH2,CH,H

G4 H,Me

Structure attributes must be viewed using STN Express query preparation.

=&gt; s l1

SAMPLE SEARCH INITIATED 08:55:11 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 282 TO ITERATE

100.0% PROCESSED 282 ITERATIONS

45 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 4633 TO 6647

PROJECTED ANSWERS: 498 TO 1302

L2 45 SEA SSS SAM L1

=&gt; s l1 sss full

Habte

11/18/2004

FULL SEARCH INITIATED 08:55:20 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 5225 TO ITERATE

100.0% PROCESSED 5225 ITERATIONS  
SEARCH TIME: 00.00.02

695 ANSWERS

L3 695 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 155.42     | 155.63  |

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 08:55:25 ON 18 NOV 2004  
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FILE COVERS 1907 - 18 Nov 2004 VOL 141 ISS 21  
FILE LAST UPDATED: 17 Nov 2004 (20041117/ED)

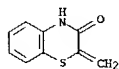
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L4 90 L3

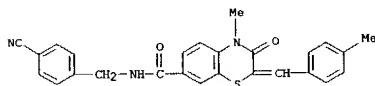
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L4 ANSWER 1 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2004:189160 CAPLUS  
 DOCUMENT NUMBER: 140:399336  
 TITLE: Identification of novel potent bicyclic peptide deformylase inhibitors  
 AUTHOR(S): Molteni, Valentini; He, Xiaohui; Nabakka, Juliet; Yang, Kunyong; Kreusch, Andreas; Gordon, Perry; Durzulaya, Badry; Warner, Ian; Shin, Tanya; Biorac, Tanya; Ryder, Neil S.; Goldberg, Ron; Doughty, John; He, Yun  
 CORPORATE SOURCE: Genomics Institute of the Novartis Research Foundation, San Diego, CA, 92121, USA  
 SOURCE: Bioorganic & Medicinal Chemistry Letters (2004), 14(6), 1477-1481  
 CODEN: BMCLEB; ISSN: 0960-894X  
 PUBLISHER: Elsevier Science B.V.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Screening of our compound collection using *Staphylococcus aureus* Ni-Peptide deformylase (PDF) afforded a very potent PDF inhibitor with an IC50 in the low nanomolar range but with poor antibacterial activity (MIC). Three-dimensional structural information obtained from *Pseudomonas aeruginosa* Ni-PDF complexed with the inhibitor suggested the synthesis of a variety of analogs that would maintain high binding affinity while attempting to improve antibacterial activity. Many of the compounds synthesized proved to be excellent PDF-Ni inhibitors and some showed increased antibacterial activity in selected strains.  
 IT 55043-51-1P  
 RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation, identification, structure-activity relationship and antibacterial effect of novel potent bicyclic peptide deformylase inhibitors)  
 RN 55043-51-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-methylene- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 IT 658680-11-6  
 RI: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (dihydroquinolinone, fused oxazinone, and fused thiazinone derivs. as matrix metalloproteinase inhibitors, pharmaceutical compns., and therapeutic use)  
 RN 658680-11-6 CAPLUS  
 CN 2H-1,4-Benzothiazine-7-carboxamide, N-[(4-cyanophenyl)methyl]-3,4-dihydro-4-methyl-2-[(4-methylphenyl)methylene]-3-oxo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2004:142970 CAPLUS  
 DOCUMENT NUMBER: 140:175189  
 TITLE: 3,4-dihydroquinolin-2-one, 5,6-fused oxazin-3-one, and 5,6-fused thiazin-3-one derivatives as matrix metalloproteinase inhibitors, pharmaceutical compositions, and therapeutic use  
 INVENTOR(S): O'Brien, Patrick Michael  
 PATENT ASSIGNEE(S): Warner-Lambert Company LLC, USA  
 SOURCE: PCT Int. Appl., 177 pp.  
 CODEN: PIXX02  
 Patent  
 English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE       |
|---|------|----------|-----------------|------------|
| WO 2004014389   | A1   | 20040229 | WO 2003-1B3537  | 20030804   |
| WO 2004014389   | C1   | 20040429 |                 |            |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GR, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |      |          |                 |            |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |            |
| US 2004043984   | A1   | 20040304 | US 2003-634288  | 20030805   |
| PRIORITY APPL. INFO.: MARPAT 140:175189   |      |          | US 2002-403082P | P 20020813 |

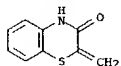
AB Th invention provides 3,4-dihydroquinolin-2-one, 5,6-fused oxazin-3-one, and 5,6-fused thiazin-3-one derivs., or pharmaceutically acceptable salts thereof. The invention also provides pharmaceutical compns. comprising a compound of the invention, or a pharmaceutically acceptable salt thereof, together with a pharmaceutically acceptable carrier, diluent, or excipient. The invention also provides methods of inhibiting an MMP-13 enzyme in an animal, comprising administering a compound of the invention, or a pharmaceutically acceptable salt thereof. The invention also provides methods of treating a disease mediated by an MMP-13 enzyme in a patient, comprising administering to the patient a compound of the invention, or a pharmaceutically acceptable salt thereof, either alone or in a pharmaceutical composition. The invention also provides methods of treating diseases such as heart disease, multiple sclerosis, osteo- and rheumatoid arthritis, arthritis other than osteo- or rheumatoid arthritis, cardiac insufficiency, inflammatory bowel disease, heart failure, age-related macular degeneration, chronic obstructive pulmonary disease, asthma, periodontal diseases, psoriasis, atherosclerosis, and osteoporosis in a patient, comprising administering to the patient a compound of the invention, or a pharmaceutically acceptable salt thereof, either alone or in a pharmaceutical composition. The invention also provides combinations, comprising a compound of the invention, or a pharmaceutically acceptable salt thereof, together with another pharmaceutically active component as described in the specification.

L4 ANSWER 3 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2004:80973 CAPLUS  
 DOCUMENT NUMBER: 140:139446  
 TITLE: Target characterization method for drug discovery  
 INVENTOR(S): Ofer, Dror  
 PATENT ASSIGNEE(S): Keddem Bio-Science Ltd., Israel  
 SOURCE: PCT Int. Appl., 188 pp.  
 CODEN: PIXX02  
 Patent  
 English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| WO 2004010136   | A1   | 20040129 | WO 2002-1L614   | 20020724 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GR, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW |      |          |                 |          |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |          |
| PRIORITY APPL. INFO.: WO 2002-1L614   |      |          |                 |          |

AB A target characterization method is claimed, in which a plurality of small, measurement mols. interact with a target and the target is characterized based on an anal. of the interactions of the measurement mols. with the target. None of the measurement mols. is used as a lead or as a fragment of a lead, nor are the mols. selected for interaction based on their drug-type diversity. Rather, the measurement mols. are selected based on their expected ability to measure various chemical and/or phys. dimensions of the target. While the number of measurement mols. is relatively small (e.g., <106), this number spans the space of characterization of the target mol. and can suffice to provide a relatively complete characterization of the target. In other embodiments, only a partial characterization is needed and/or obtained. Alternatively or addnl., while the measurement mols. are selected for span reasons, they are also used as leads or as fragments of a lead. In an exemplary embodiment of the invention, a complete process of drug discovery comprises: (a) selecting a target; (b) optionally selecting a set of measurement mols. useful for the target, or using a universal library; (c) characterizing the target using the set of measurement mols.; (d) reconstructing a pharmaceutical model of the target, based on the characterization; and (e) using the model to forward a discovery process, for example, select, reject, filter and/or design a drug lead. Specifically claimed are the target based method, methods of selecting scaffolds and gauge mols. for a screening library, screening libraries, a method of obtaining information about the binding behavior of a target mol., and a method of constructing a lead compound  
 IT 55043-51-1  
 RI: MSC (Miscellaneous); PRP (Properties)  
 (scaffold for screening library; target characterization method for drug discovery)  
 RN 55043-51-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-methylene- (9CI) (CA INDEX NAME)

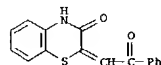
L4 ANSWER 3 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



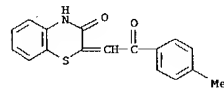
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:896566 CAPLUS  
DOCUMENT NUMBER: 140:357278  
TITLE: Tetracarbonyl systems: VII. Reactions of 1,3,4,6-tetracarbonyl compounds with o-aminothiophenol in the synthesis of regioisomeric 3(2)-aroylmethylene-1,4-benzothiazin-2(3)ones  
AUTHOR(S): Kozminykh, V. O.; Igidov, N. M.; Kozminykh, E. N.  
CORPORATE SOURCE: Perm State Pharmaceutical Academy, Perm, 614051, Russia  
SOURCE: Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2003), 39(6), 863-868  
CODEN: RJOCEQ; ISSN: 1070-4280  
PUBLISHER: MAIK Nauka/Interperiodica Publishing  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB In reaction of 1,6-diaryl-3,4-dihydroxy-2,4-hexadiene-1,6-diones with o-aminothiophenol (32)-3-aroylmethylene-3,4-dihydro-2H-1,4-benzothiazin-2-ones were obtained in a preparative yield. In solution of the latter compds. an enamine-imine tautomerism was observed. In reaction of Et esters or amides of 2-substituted 6-aryl-3,4-dihydroxy-6-oxo-2,4-hexadienoic acids with o-aminothiophenol regioisomeric 2-aroylmethylene-2H-1,4-benzothiazin-3(4H)-ones were formed.  
IT 64393-75-5P 64393-76-6P  
RI: SPN (Synthetic preparation); PREP (Preparation) (reactions of 1,3,4,6-tetracarbonyl compds. with o-aminothiophenol to give regioisomeric aroylmethylenebenzothiazinones)  
RN 64393-75-5 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-oxo-2-phenylethylidene)- (9CI) (CA INDEX NAME)



RN 64393-76-6 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methylphenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



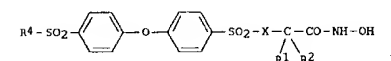
REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 5 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

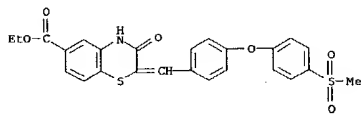
ACCESSION NUMBER: 2003:532639 CAPLUS  
DOCUMENT NUMBER: 139:100932  
TITLE: Preparation of hydroxamic acid derivatives as MMP inhibitors  
INVENTOR(S): Horiiuchi, Yoshihiro  
PATENT ASSIGNEE(S): Sumitomo Pharmaceuticals Company, Limited, Japan  
SOURCE: PCT Int. Appl., 93 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.             | KIND   | DATE              | APPLICATION NO. | DATE       |
|------------------------|--|-------------------|-----------------|------------|
| WO 2003055851          | A1   | 20030710          | WO 2002-JP13580 | 20021226   |
| W:                     | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |                   |                 |            |
| RW:                    | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |                   |                 |            |
| EP 1466899             | A1   | 20041013          | EP 2002-792000  | 20021226   |
| R:                     | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK   |                   |                 |            |
| PRIORITY APPLN. INFO.: |  |                   | JP 2001-397638  | A 20011227 |
|                        |  |                   | WO 2002-JP13580 | W 20021226 |
| OTHER SOURCE(S):       |  | MARPAT 139:100932 |                 |            |
| GI                     |  |                   |                 |            |



AB The title compds. I [R1 and R2 each represents hydrogen, lower alkyl, lower haloalkyl, etc.; X represents methylene or NR3 (R3 represents hydrogen, lower alkyl, etc.); and R4 represents C1-4 alkyl] are prepared. Compds. of this invention in vitro showed IC50 values of < 0.5 nM to 34.4 nM against MMP-13. Formulations are given.  
IT 557087-59-9P  
RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of hydroxamic acid derivs. as MMP inhibitors)  
RN 557087-59-9 CAPLUS  
CN 2H-1,4-Benzothiazine-6-carboxylic acid, 3,4-dihydro-2-[[4-[(4-methylsulfonyl)phenoxy]phenyl]methylene]-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)

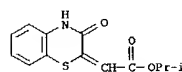
L4 ANSWER 5 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



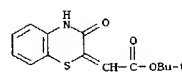
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:461791 CAPLUS  
 DOCUMENT NUMBER: 139:230821  
 TITLE: One-pot synthesis of stable phosphonium ylides using 2-aminothiophenol  
 AUTHOR(S): Esmali, Abbas Ali; Ghoreghloo, Mahnaz; Islami, Mohammad Reza; Bijanzadeh, Hamid Reza  
 CORPORATE SOURCE: Department of Chemistry, University of Birjand, Birjand, Iran  
 SOURCE: Tetrahedron (2003), 59(26), 4785-4788  
 CODEN: TETRA; ISSN: 0040-4020  
 PUBLISHER: Elsevier Science B.V.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 139:230821  
 AB Protonation of reactive 1:1 intermediates produced in the reaction between triphenylphosphine and dialkyl acetylenedicarboxylate by 2-aminothiophenol led to vinylphosphonium salts, which underwent Michael addition with thiophenolate anion producing highly functionalized phosphonium ylides in excellent yields. For example, PPh<sub>3</sub> reacted with MeO<sub>2</sub>C.tplbond.CO<sub>2</sub>Me and NH<sub>2</sub>-o-C<sub>6</sub>H<sub>4</sub>SH giving NH<sub>2</sub>-o-C<sub>6</sub>H<sub>4</sub>SCH(CO<sub>2</sub>Me)C(CO<sub>2</sub>Me):PPh<sub>3</sub> in 89% yield.  
 IT 594846-62-5P 594846-63-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of phosphonium ylides and dihydrobenzothiazine derivs. using aminothiophenol)  
 RN 594846-62-5 CAPLUS  
 CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, 1-methylethyl ester (9CI) (CA INDEX NAME)



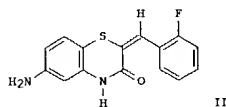
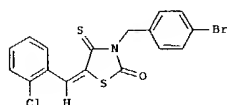
RN 594846-63-6 CAPLUS  
 CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

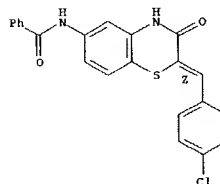
L4 ANSWER 7 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:384660 CAPLUS  
 DOCUMENT NUMBER: 140:27791  
 TITLE: Synthesis and structural study of arylidene thiazolidine and benzothiazine compounds  
 AUTHOR(S): Guarda, V. L. M.; Pereira, M. A.; De Simone, C. A.; Albuquerque, J. F. C.; Galdino, S. L.; Chantagrel, J.; Ferrissin, M.; Beney, C.; Thomasson, F.; Pitta, I. R.; Lhu-Duc, C.  
 CORPORATE SOURCE: Escola de Farmacia, Universidade Federal de Ouro Preto, Ouro Preto, Brazil  
 SOURCE: Sulfur Letters (2003), 26(1), 17-27  
 CODEN: SULED2; ISSN: 0278-6117  
 PUBLISHER: Taylor & Francis Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 140:27791  
 GI



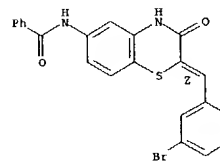
AB Synthesis and physico-chemical properties of 5-arylidene-3-(2-biphenyl-4-yl-2-oxoethyl)- and 3-(4-bromobenzyl)-4-thioxothiazolidin-2-ones, 5-arylidene-3-(4-chlorobenzyl)-4-thioxo- and 4-oxothiazolidin-2-ones, and 2-arylidene-6-benzoylamino- or 6-amino-4H-benzo[1,4]thiazin-3-ones, are described. These arylidene thiazolidines, e.g., I, and benzothiazines, e.g., II, were prepared by Knoevenagel condensation with benzaldehydes.  
 IT 634198-56-4P 634198-57-5P 634198-58-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (stereoselective preparation of aminoarylidenebenzothiazinones via reduction of nitrobenzothiazinone followed by benzylation, Knoevenagel condensation with benzaldehydes, and debenzoylation)  
 RN 634198-56-4 CAPLUS  
 CN Benzamide, N-[(2Z)-2-[(4-chlorophenyl)methylene]-3,4-dihydro-3-oxo-2H-1,4-benzothiazin-6-yl]- (9CI) (CA INDEX NAME)

Habte

L4 ANSWER 7 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
Double bond geometry as shown.

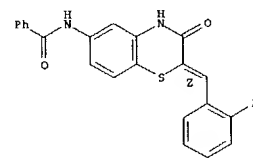
RN 634198-57-5 CAPLUS  
 CN Benzamide, N-[(2Z)-2-[(3-bromophenyl)methylene]-3,4-dihydro-3-oxo-2H-1,4-benzothiazin-6-yl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 634198-58-6 CAPLUS  
 CN Benzamide, N-[(2Z)-2-[(2-fluorophenyl)methylene]-3,4-dihydro-3-oxo-2H-1,4-benzothiazin-6-yl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

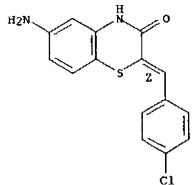


IT 634198-59-7P 634198-60-0P 634198-61-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (stereoselective preparation of aminoarylidenebenzothiazinones via reduction of

11/18/2004

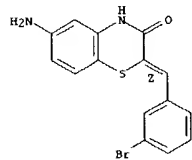
L4 ANSWER 7 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 nitrobenzothiazinone followed by benzylation, Knoevenagel condensation  
 with benzaldehydes, and debenzoylation)  
 RN 634198-59-7 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 6-amino-2-[(4-chlorophenyl)methylene]-,  
 (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 634198-60-0 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 6-amino-2-[(3-bromophenyl)methylene]-,  
 (2Z)- (9CI) (CA INDEX NAME)

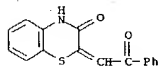
Double bond geometry as shown.



RN 634198-61-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 6-amino-2-[(2-fluorophenyl)methylene]-,  
 (2Z)- (9CI) (CA INDEX NAME)

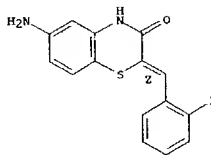
Double bond geometry as shown.

L4 ANSWER 8 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2002:785513 CAPLUS  
 DOCUMENT NUMBER: 138:170159  
 TITLE: Synthesis of regioisomeric 3-phenacylidene-2,3-dihydro-4h-benzothiazin-2-one and 2-phenacylidene-2,3-dihydro-4h-benzothiazin-3-one  
 AUTHOR(S): Kozminykh, V. O.; Igidov, N. M.; Kozminykh, E. N.  
 CORPORATE SOURCE: Perm State Pharmaceutical Academy, Perm, 614070, Russia  
 SOURCE: Chemistry of Heterocyclic Compounds (New York, NY, United States) (Translation of Khimiya Geterotsiklicheskikh Soedinenii) (2002), 38 (3), 365-367  
 CODEN: CHCCAL; ISSN: 0009-3122  
 PUBLISHER: Kluwer Academic/Consultants Bureau  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 138:170159  
 AB Reaction of PhCOCH<sub>2</sub>C(OH)(CH<sub>3</sub>)CO<sub>2</sub>Et with 2-H<sub>2</sub>NCGH<sub>4</sub>SH gave 2-phenacylidene-2,3-dihydro-4h-benzothiazin-3-one in 64% yield. Reaction of PhCOCH<sub>2</sub>COOCH<sub>2</sub>CO<sub>2</sub>Ph with 2-H<sub>2</sub>NCGH<sub>4</sub>SH gave 71% 3-phenacylidene-2,3-dihydro-4h-benzothiazin-2-one mainly as the enamine.  
 IT 64393-75-5P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (synthesis of regioisomeric 3-phenacylidene-2,3-dihydro-4h-benzothiazin-2-one and 2-phenacylidene-2,3-dihydro-4h-benzothiazin-3-one)  
 RN 64393-75-5 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-oxo-2-phenylethylidene)- (9CI) (CA INDEX NAME)



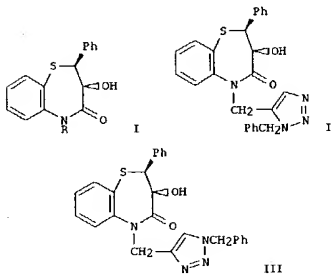
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



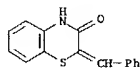
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2002:125053 CAPLUS  
 DOCUMENT NUMBER: 137:6162  
 TITLE: Synthesis and reactivity of 2,3-dihydro-3-hydroxy-2-phenyl-1,5-benzothiazepin-4(5H)-one derivatives  
 AUTHOR(S): Zerzouf, Abdelfettah; El Meslouhi, Hamza; Salem, Moussa; Essassi, El Mokhtar; Roumestant, Marie-Louise; Viallefont, Philippe  
 CORPORATE SOURCE: Lab. de Chimie Organique et Etudes Physico-Chimiques, ENS Oued Akrech, Rabat, Morocco  
 SOURCE: Comptes Rendus de l'Academie des Sciences, Serie II: Chimie (2001), 4(12), 925-931  
 CODEN: CASCFN; ISSN: 1387-1609  
 PUBLISHER: Editions Scientifiques et Medicales Elsevier  
 DOCUMENT TYPE: Journal  
 LANGUAGE: French  
 OTHER SOURCE(S): CASREACT 137:6162  
 GI



AB New 1,5-benzothiazepinone derivs. have been synthesized. The cycloaddn. of benzyl azide with 5-propargyl-1,5-benzothiazepinone I (R = CH<sub>2</sub>C.tplbond.CH) gave II and III. 1,5-Benzothiazepinone I (R = CH<sub>2</sub>CO<sub>2</sub>Me) reacts with hydrazine to give a 1,5-benzothiazepinone derivative. The reaction of 3-chloro-1,5-benzothiazepinones with nucleophiles in DMF afforded 2-benzylidenbenzothiazin-3-ones. The tosylate derived from I (R = CH<sub>2</sub>CO<sub>2</sub>Me) gave a 1,5-benzothiazepinone derivative by reaction with N<sub>3</sub>TMS in the presence of CsF in DMF.  
 IT 24545-07-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and reactions of 2,3-dihydro-3-hydroxy-2-phenyl-1,5-benzothiazepin-4(5H)-one derivs.)  
 RN 24545-07-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

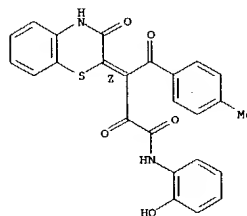


REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:933455 CAPLUS  
 DOCUMENT NUMBER: 136:125519  
 TITLE: Unusual reaction of hetero[a]-2,3-dihydro-2,3-pyrrolediones with o-aminothiophenol  
 AUTHOR(S): Mashevskaya, I. V.; Kol'tsova, S. V.; Masliva, A. N.  
 CORPORATE SOURCE: A. M. Gor'kii Perm State University, Perm, 614000, Russia  
 SOURCE: Chemistry of Heterocyclic Compounds (New York, NY, United States) (Translation of Khimiya Geterotsiklicheskih Soedinenii) (2001), 37(5), 652-653  
 CODEN: CHCCAL; ISSN: 0009-3122  
 PUBLISHER: Kluwer Academic/Consultants Bureau  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB The reaction of 3-(4-methylbenzoyl)-1H-pyrrolo[2,1-c][1,4]benzoxazine-1,2,4-trione and of 3-benzoylpyrrolo[1,2-a]quinoxaline-1,2,4(5H)-trione with 2-aminobenzenethiol was reported.  
 IT 412269-74-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)  
 RN 412269-74-0 CAPLUS  
 CN Benzenebutanamide,  $\beta$ -(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-N-(2-hydroxyphenyl)-4-methyl- $\alpha,\gamma$ -dioxo-, (BZ)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



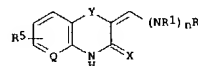
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

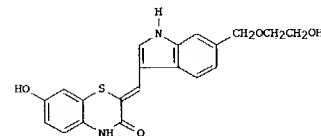
ACCESSION NUMBER: 2000:881149 CAPLUS  
 DOCUMENT NUMBER: 134:42147  
 TITLE: Preparation and effects of benzothiazinones and benzoxazinones as protein kinase inhibitors  
 INVENTOR(S): Rafferty, Paul; Calderwood, David; Arnold, Lee D.; Gonzalez Pascual, Beatriz; Ortega Martinez, Jose L.; Perez de Vega, Maria J.; Fernandez, Isabel F.  
 PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 183 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.             | KIND   | DATE             | APPLICATION NO. | DATE       |
|------------------------|--|------------------|-----------------|------------|
| WO 2000075139          | A2   | 20001214         | WO 2000-US15324 | 20000602   |
| WO 2000075139          | A3   | 20010329         |                 |            |
| W:                     | AD, BG, BR, CA, CN, CZ, HR, HU, ID, IL, IN, JP, KR, MX, NO, NZ, PL, RU, SG, SK, TR, UA, US, ZA |                  |                 |            |
| RW:                    | AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE                         |                  |                 |            |
| EP 1181282             | A2   | 20020227         | EP 2000-936476  | 20000602   |
| R:                     | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI                         |                  |                 |            |
| BR 2000011063          | A  | 20020416         | BR 2000-11063   | 20000602   |
| JP 2003501429          | T2   | 20030114         | JP 2001-502421  | 20000602   |
| ZA 2001009610          | A  | 20030221         | ZA 2001-9610    | 20011121   |
| NO 2001005899          | A  | 20020130         | NO 2001-5899    | 20011203   |
| BG 106238              | A  | 20020830         | BG 2001-106238  | 20011219   |
| PRIORITY APPLN. INFO.: |  |                  | US 1999-137410P | P 19990603 |
|                        |  |                  | WO 2000-US15324 | W 20000602 |
| OTHER SOURCE(S):       |  | MARPAT 134:42147 |                 |            |
| GI                     |  |                  |                 |            |

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



I

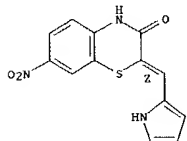


II

AB Title compds. [1: Q = N, CR2: X = S, O, NOR3: Y = S, O, SO, SO2; R, R1 independently = H, aliphatic, aryl, heterocyclyl; R2 = H, CH3; R3 = H, COR4; R4 = alkyl, alkenyl, alkynyl, aryl; n = 0, 1; R5 = 7-Cl, 7-CH3, 6-CF3, 6-CH3, 6-Cl, 7-OCH3, 6-CH3CONH, 7-OH, etc.] are prepared Title compds. and physiol. acceptable salts are inhibitors of receptor tyrosine kinase or non-receptor tyrosine kinase activity which involve in angiogenic process. Thus, title compds. can ameliorate disease states where angiogenesis or endothelial cell hyperproliferation is a factor and can be used to treat cancer and hyperproliferative disorders. Title compound II was prepared  
 IT 312970-19-7P 312970-35-7P 312970-49-3P  
 312972-81-9P 312972-84-2P 312973-50-5P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (preparation and effects of benzothiazinones and benzoxazinones as protein kinase inhibitors)  
 RN 312970-19-7 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-nitro-2-(1H-pyrrol-2-ylmethylene)-, (2Z)- (9CI) (CA INDEX NAME)

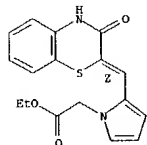
Double bond geometry as shown.

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

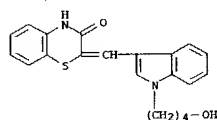


RN 312970-35-7 CAPLUS  
CN 1H-Pyrrole-1-acetic acid, 2-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312970-49-3 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-(4-hydroxybutyl)-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)



RN 312972-81-9 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-thione, 2-[(1H-pyrrol-2-ylmethylene)-, (2Z)- (9CI) (CA INDEX NAME)

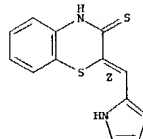
Double bond geometry as shown.

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

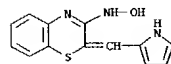
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L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

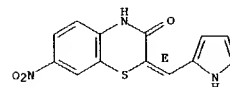


RN 312972-84-2 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-pyrrol-2-ylmethylene)-, oxime (9CI) (CA INDEX NAME)



RN 312973-50-5 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-nitro-2-[(1H-pyrrol-2-ylmethylene)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



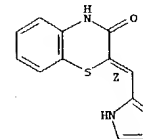
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L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

312973-46-9P 312973-47-0P 312973-48-1P  
312973-49-2P 312973-51-6P 312973-52-7P  
312973-53-8P 312973-54-9P 312973-55-0P  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. and effects of benzothiazinones and benzoxazinones as protein kinase inhibitors)

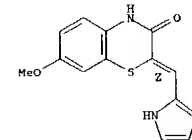
RN 312970-15-3 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-pyrrol-2-ylmethylene)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312970-16-4 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-methoxy-2-[(1H-pyrrol-2-ylmethylene)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



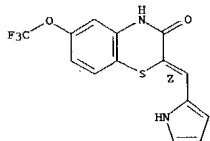
RN 312970-17-5 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-pyrrol-2-ylmethylene)-6-(trifluoromethoxy)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

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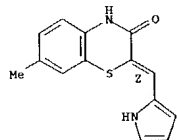


L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



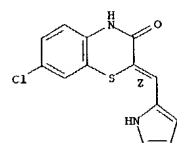
RN 312970-18-6 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-methyl-2-((1H-pyrrol-2-yl)methylene)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312970-20-0 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-chloro-2-((1H-pyrrol-2-yl)methylene)-, (2Z)- (9CI) (CA INDEX NAME)

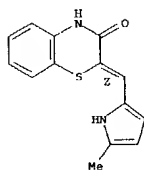
Double bond geometry as shown.



RN 312970-21-1 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 6-chloro-2-((1H-pyrrol-2-yl)methylene)-, (2Z)- (9CI) (CA INDEX NAME)

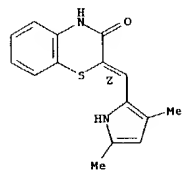
Double bond geometry as shown.

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



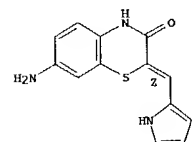
RN 312970-25-5 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,5-dimethyl-1H-pyrrol-2-yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



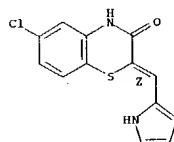
RN 312970-26-6 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-amino-2-((1H-pyrrol-2-yl)methylene)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



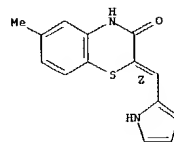
RN 312970-27-7 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4,5-dimethyl-1H-pyrrol-2-yl)methylene]-, (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



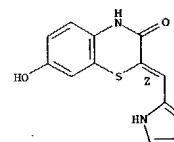
RN 312970-22-2 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 6-methyl-2-((1H-pyrrol-2-yl)methylene)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312970-23-3 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-hydroxy-2-((1H-pyrrol-2-yl)methylene)-, (2Z)- (9CI) (CA INDEX NAME)

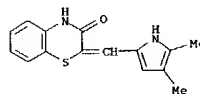
Double bond geometry as shown.



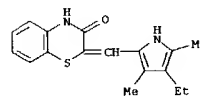
RN 312970-24-4 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-methyl-1H-pyrrol-2-yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

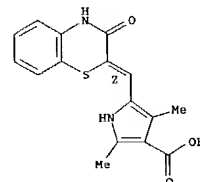


RN 312970-28-8 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-ethyl-3,5-dimethyl-1H-pyrrol-2-yl)methylene]- (9CI) (CA INDEX NAME)



RN 312970-29-9 CAPLUS  
CN 1H-Pyrrole-3-carboxylic acid, 5-[(2)-[3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-2,4-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



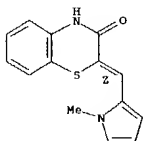
RN 312970-30-2 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-methyl-1H-pyrrol-2-yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

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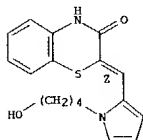
11/18/2004

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



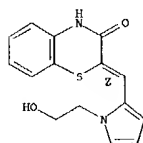
RN 312970-31-3 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-(4-hydroxybutyl)-1H-pyrrol-2-yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312970-32-4 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-(2-hydroxyethyl)-1H-pyrrol-2-yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

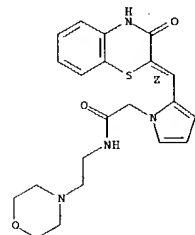
Double bond geometry as shown.



RN 312970-33-5 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-(3-(dimethylamino)propyl)-1H-pyrrol-2-yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

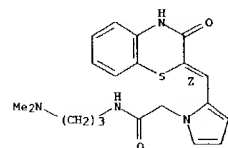
Double bond geometry as shown.

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312970-38-0 CAPLUS  
 CN 1H-Pyrrole-1-acetamide, 2-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

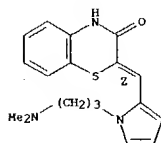
Double bond geometry as shown.



RN 312970-39-1 CAPLUS  
 CN 1H-Pyrrole-1-acetamide, 2-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)

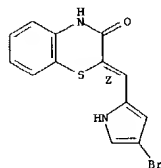
Double bond geometry as shown.

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



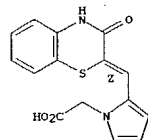
RN 312970-34-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-bromo-1H-pyrrol-2-yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312970-36-8 CAPLUS  
 CN 1H-Pyrrole-1-acetic acid, 2-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)

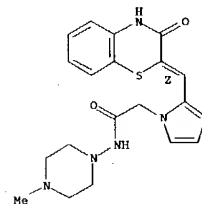
Double bond geometry as shown.



RN 312970-37-9 CAPLUS  
 CN 1H-Pyrrole-1-acetamide, 2-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

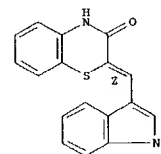
Double bond geometry as shown.

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

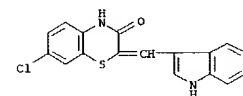


RN 312970-40-4 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-indol-3-yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

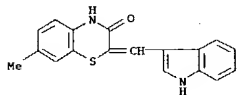


RN 312970-41-5 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-chloro-2-[(1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)

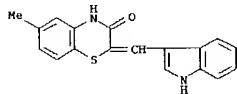


RN 312970-42-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-indol-3-yl)methylene]-7-methyl- (9CI) (CA INDEX NAME)

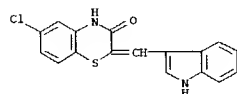
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



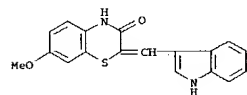
RN 312970-43-7 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-6-methyl- (9CI)  
(CA INDEX NAME)



RN 312970-44-8 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 6-chloro-2-(1H-indol-3-ylmethylene)- (9CI)  
(CA INDEX NAME)

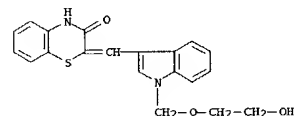


RN 312970-45-9 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-7-methoxy- (9CI)  
(CA INDEX NAME)

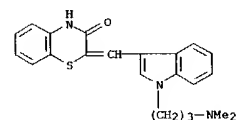


RN 312970-46-0 CAPLUS  
CN Acetamide, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-6-yl]- (9CI) (CA INDEX NAME)

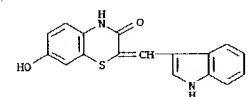
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



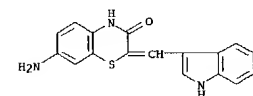
RN 312970-52-8 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[3-(dimethylamino)propyl]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312970-53-9 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-hydroxy-2-(1H-indol-3-ylmethylene)- (9CI)  
(CA INDEX NAME)



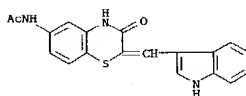
RN 312970-54-0 CAPLUS  
CN Urea, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



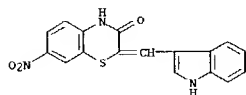
RN 312970-55-1 CAPLUS  
CN Urea, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

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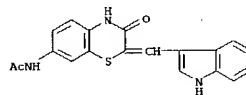
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



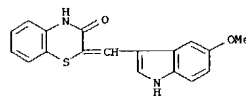
RN 312970-47-1 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-7-nitro- (9CI)  
(CA INDEX NAME)



RN 312970-48-2 CAPLUS  
CN Acetamide, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]- (9CI) (CA INDEX NAME)

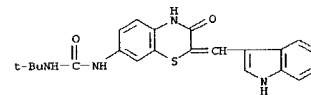


RN 312970-50-6 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-methoxy-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

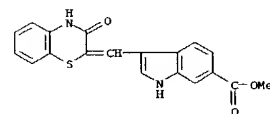


RN 312970-51-7 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[(2-hydroxyethoxy)methyl]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

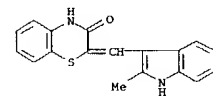
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



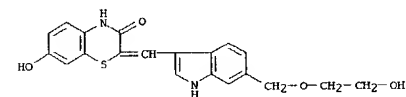
RN 312970-56-2 CAPLUS  
CN 1H-Indole-6-carboxylic acid, 3-[[3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 312970-57-3 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[2-methyl-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



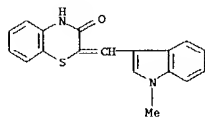
RN 312970-58-4 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-hydroxy-2-[[6-[(2-hydroxyethoxy)methyl]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



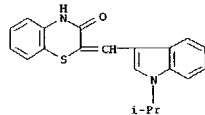
RN 312970-59-5 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-methyl-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

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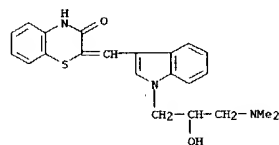
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



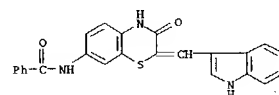
RN 312970-60-8 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(1-methylethyl)-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



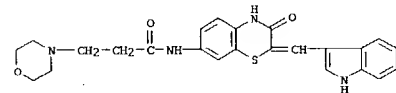
RN 312970-61-9 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(3-(dimethylamino)-2-hydroxypropyl)-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



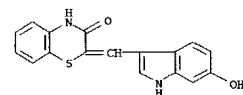
RN 312970-62-0 CAPLUS  
CN Benzamide, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]- (9CI) (CA INDEX NAME)



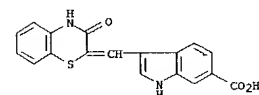
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



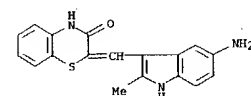
RN 312970-67-5 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-(hydroxy-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)



RN 312970-68-6 CAPLUS  
CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)



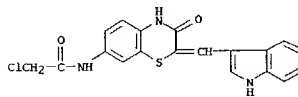
RN 312970-69-7 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-amino-2-methyl-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



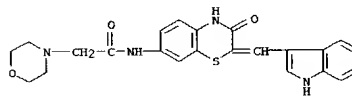
RN 312970-70-0 CAPLUS  
CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, 2-(dimethylamino)ethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

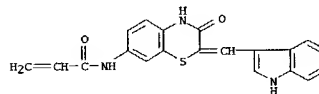
RN 312970-63-1 CAPLUS  
CN Acetamide, 2-chloro-N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]- (9CI) (CA INDEX NAME)



RN 312970-64-2 CAPLUS  
CN 4-Morpholineacetamide, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]- (9CI) (CA INDEX NAME)



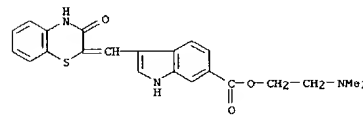
RN 312970-65-3 CAPLUS  
CN 2-Propenamide, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]- (9CI) (CA INDEX NAME)



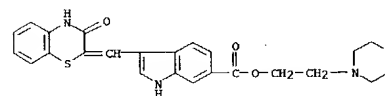
RN 312970-66-4 CAPLUS  
CN 4-Morpholinopropanamide, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]- (9CI) (CA INDEX NAME)



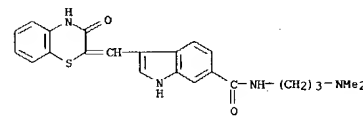
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



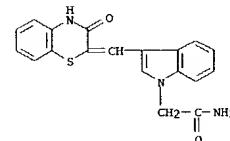
RN 312970-71-1 CAPLUS  
CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, 2-(4-morpholinyl)ethyl ester (9CI) (CA INDEX NAME)



RN 312970-72-2 CAPLUS  
CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



RN 312970-73-3 CAPLUS  
CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)

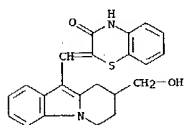


RN 312970-74-4 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6,7,8,9-tetrahydro-8-

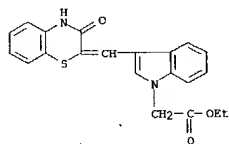
11/18/2004

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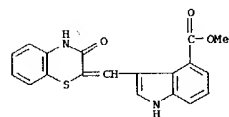
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
(hydroxymethyl)pyrido[1,2-a]indol-10-yl)methylene]- (9CI) (CA INDEX NAME)



RN 312970-75-5 CAPLUS  
CN 1H-Indole-1-acetic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, ethyl ester (9CI) (CA INDEX NAME)

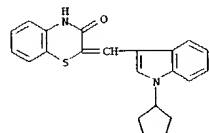


RN 312970-76-6 CAPLUS  
CN 1H-Indole-4-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, methyl ester (9CI) (CA INDEX NAME)

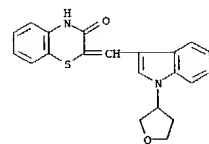


RN 312970-77-7 CAPLUS  
CN 1H-Indole-1-acetic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, ethyl ester (9CI) (CA INDEX NAME)

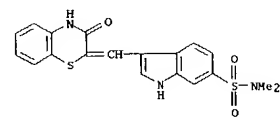
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



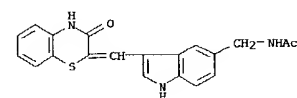
RN 312970-81-3 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(tetrahydro-3-furanyl)-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)



RN 312970-82-4 CAPLUS  
CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, N,N-dimethyl- (9CI) (CA INDEX NAME)

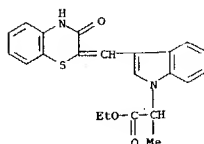


RN 312970-83-5 CAPLUS  
CN Acetamide, N-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-indol-5-yl)methyl]- (9CI) (CA INDEX NAME)

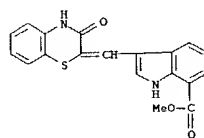


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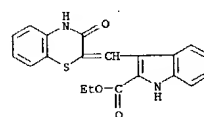
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312970-78-8 CAPLUS  
CN 1H-Indole-7-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, methyl ester (9CI) (CA INDEX NAME)



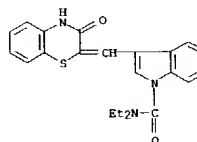
RN 312970-79-9 CAPLUS  
CN 1H-Indole-2-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, ethyl ester (9CI) (CA INDEX NAME)



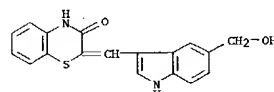
RN 312970-80-2 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-cyclopentyl-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

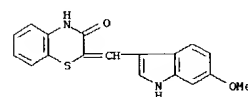
RN 312970-84-6 CAPLUS  
CN 1H-Indole-1-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N,N-diethyl- (9CI) (CA INDEX NAME)



RN 312970-85-7 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-(hydroxymethyl)-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)



RN 312970-86-8 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(6-methoxy-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)

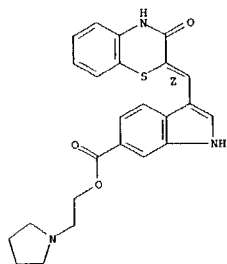


RN 312970-87-9 CAPLUS  
CN 1H-Indole-6-carboxylic acid, 3-[[2-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-2-(1-pyrrolidinyl)ethyl ester (9CI) (CA INDEX NAME)

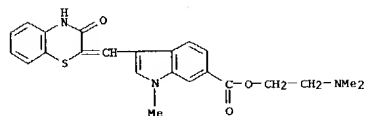
Double bond geometry as shown.

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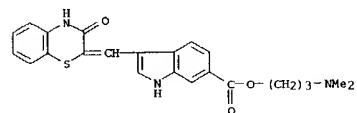
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312970-88-0 CAPLUS  
CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)ethyl] ester (9CI) (CA INDEX NAME)

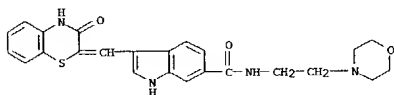


RN 312970-89-1 CAPLUS  
CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)ethyl] ester (9CI) (CA INDEX NAME)

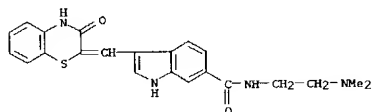


RN 312970-90-4 CAPLUS  
CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)ethyl] ester (9CI) (CA INDEX NAME)

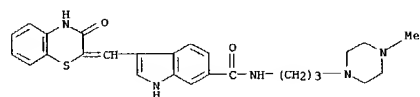
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



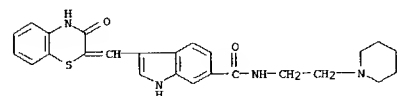
RN 312970-93-7 CAPLUS  
CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)ethyl] ester (9CI) (CA INDEX NAME)



RN 312970-94-8 CAPLUS  
CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(4-methyl-1-piperazinyl)propyl] ester (9CI) (CA INDEX NAME)

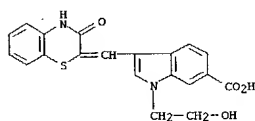


RN 312970-95-9 CAPLUS  
CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(1-piperidinyl)ethyl] ester (9CI) (CA INDEX NAME)



RN 312970-96-0 CAPLUS  
CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)propyl] ester (9CI) (CA INDEX NAME)

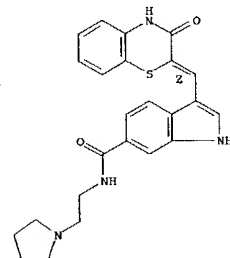
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
ylidene)methyl]-1-(2-hydroxyethyl)-, monosodium salt (9CI) (CA INDEX NAME)



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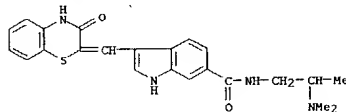
RN 312970-91-5 CAPLUS  
CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(1-pyrrolidinyl)ethyl] ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

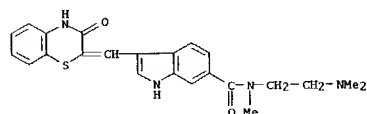


RN 312970-92-6 CAPLUS  
CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(4-morpholinyl)ethyl] ester (9CI) (CA INDEX NAME)

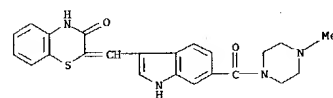
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312970-97-1 CAPLUS  
CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)ethyl] ester (9CI) (CA INDEX NAME)

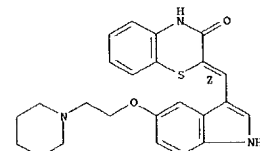


RN 312970-98-2 CAPLUS  
CN Piperazine, 1-[(3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-indol-6-yl)carbonyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 312970-99-3 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-[2-(1-piperidinyl)ethoxy]-1H-indol-3-yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



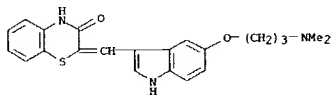
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L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

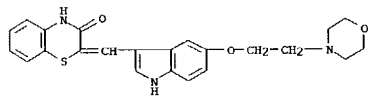
RN 312971-00-9 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-[3-(dimethylamino)propoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



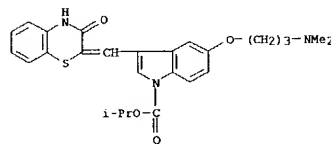
RN 312971-01-0 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-[2-(4-morpholinyl)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312971-02-1 CAPLUS

CN 1H-indole-1-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-5-[3-(dimethylamino)propoxy]-, 1-methylethyl ester (9CI) (CA INDEX NAME)



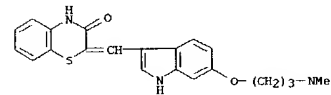
RN 312971-03-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-[3-(dimethylamino)propoxy]-1-methyl-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



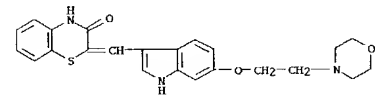
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[3-(dimethylamino)propoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



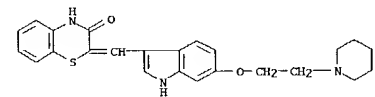
RN 312971-08-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[2-(4-morpholinyl)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



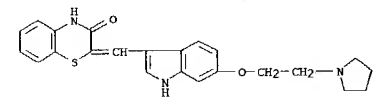
RN 312971-09-8 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[2-(1-piperidinyl)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312971-10-1 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[2-(1-pyrrolidinyl)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

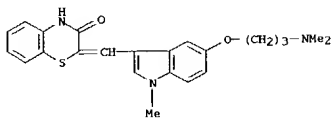


RN 312971-11-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[2-(dimethylamino)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

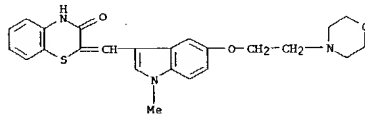
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L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



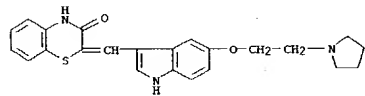
RN 312971-04-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-methyl-5-[2-(4-morpholinyl)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



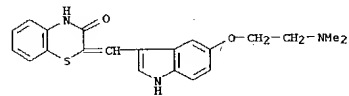
RN 312971-05-4 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-[2-(1-pyrrolidinyl)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



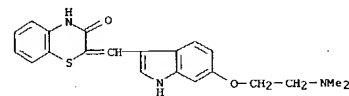
RN 312971-06-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-[2-(dimethylamino)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



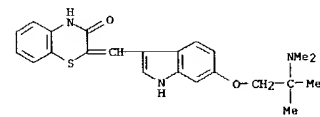
RN 312971-07-6 CAPLUS

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



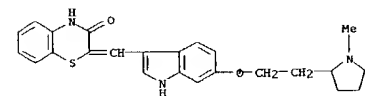
RN 312971-12-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[2-(dimethylamino)-2-methylpropoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



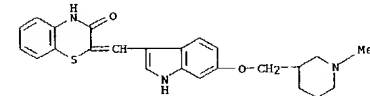
RN 312971-13-4 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[2-(1-methyl-2-pyrrolidinyl)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



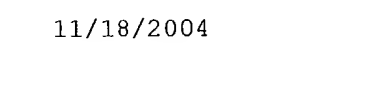
RN 312971-14-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[2-(1-methyl-3-piperidinyl)methoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



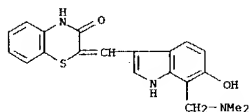
RN 312971-15-6 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[7-[(dimethylamino)methyl]-6-hydroxy-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

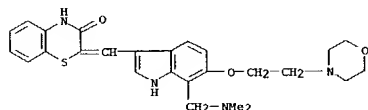


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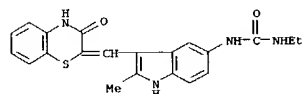
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



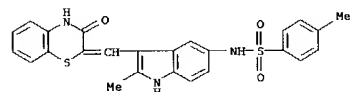
RN 312971-16-7 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[7-[(dimethylamino)methyl]-6-[2-(4-morpholinyl)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312971-17-8 CAPLUS  
CN Urea, N-[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-2-methyl-1H-indol-5-yl]-N'-ethyl- (9CI) (CA INDEX NAME)

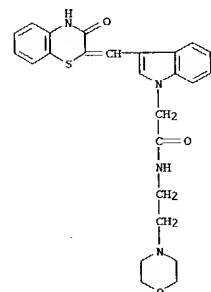


RN 312971-18-9 CAPLUS  
CN Benzenesulfonamide, N-[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-2-methyl-1H-indol-5-yl]-4-methyl- (9CI) (CA INDEX NAME)

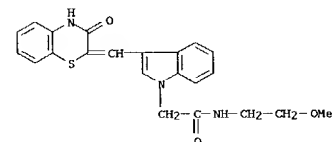


RN 312971-19-0 CAPLUS

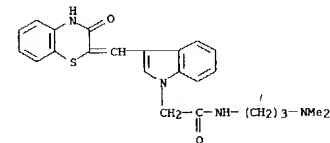
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312971-23-6 CAPLUS  
CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(2-methoxyethyl)- (9CI) (CA INDEX NAME)



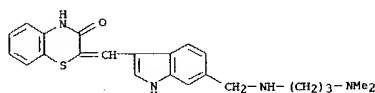
RN 312971-24-7 CAPLUS  
CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



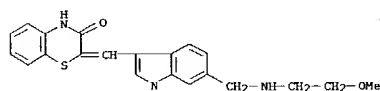
RN 312971-25-8 CAPLUS

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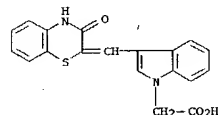
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[[[3-(dimethylamino)propyl]amino]methyl]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312971-20-3 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[[[3-(dimethylamino)propyl]amino]methyl]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

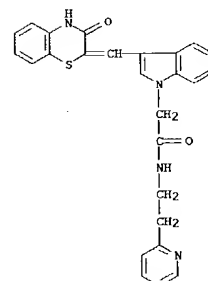


RN 312971-21-4 CAPLUS  
CN 1H-Indole-1-acetic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

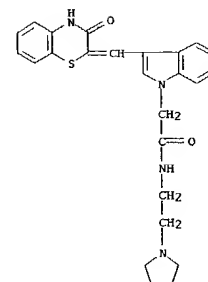


RN 312971-22-5 CAPLUS  
CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(2-pyridinyl)ethyl]- (9CI) (CA INDEX NAME)



RN 312971-26-9 CAPLUS  
CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(1-pyrrolidinyl)ethyl]- (9CI) (CA INDEX NAME)

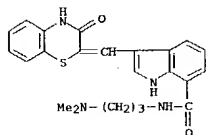


RN 312971-27-0 CAPLUS  
CN 1H-Indole-1-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

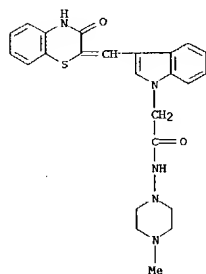
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L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

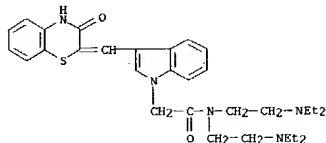


RN 312971-28-1 CAPLUS  
 CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)

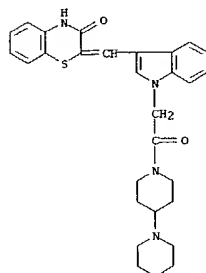


RN 312971-29-2 CAPLUS  
 CN 1H-Indole-1-acetamide, N-bis[2-(diethylamino)ethyl]-3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

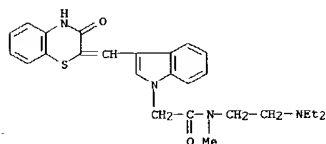


RN 312971-30-5 CAPLUS  
 CN 1,4'-Bipiperidine, 1'-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-indol-1-yl]acetyl]- (9CI) (CA INDEX NAME)

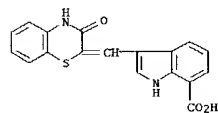


RN 312971-31-6 CAPLUS  
 CN 1H-Indole-1-acetamide, N-[2-(diethylamino)ethyl]-3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-methyl- (9CI) (CA INDEX NAME)

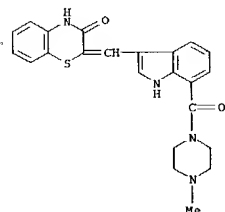
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312971-32-7 CAPLUS  
 CN 1H-Indole-7-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)

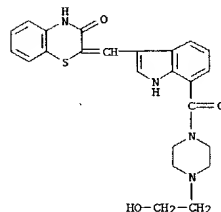


RN 312971-33-8 CAPLUS  
 CN Piperazine, 1-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-indol-7-yl]carbonyl]-4-methyl- (9CI) (CA INDEX NAME)

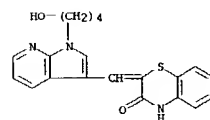


RN 312971-34-9 CAPLUS  
 CN 1-Piperazineethanol, 4-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-indol-7-yl]carbonyl]- (9CI) (CA INDEX NAME)

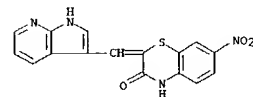
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312971-35-0 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(4-hydroxybutyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)

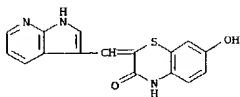


RN 312971-36-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-nitro-2-[(1H-pyrrolo[2,3-b]pyridin-3-yl)methylene]- (9CI) (CA INDEX NAME)

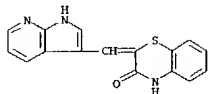


RN 312971-37-2 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-hydroxy-2-[(1H-pyrrolo[2,3-b]pyridin-3-yl)methylene]- (9CI) (CA INDEX NAME)

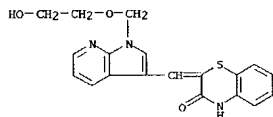
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



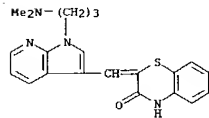
RN 312971-38-3 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(2-hydroxyethoxy)methyl]-1H-pyrrolo[2,3-b]pyridin-3-ylmethylene]- (9CI) (CA INDEX NAME)



RN 312971-39-4 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(2-hydroxyethoxy)methyl]-1H-pyrrolo[2,3-b]pyridin-3-ylmethylene]- (9CI) (CA INDEX NAME)

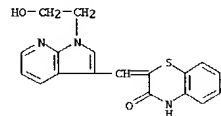


RN 312971-40-7 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(3-(dimethylamino)propyl)-1H-pyrrolo[2,3-b]pyridin-3-ylmethylene]- (9CI) (CA INDEX NAME)

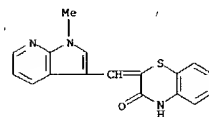


RN 312971-41-8 CAPLUS

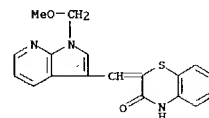
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



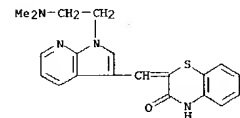
RN 312971-45-2 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(2-hydroxyethoxy)methyl]-1H-pyrrolo[2,3-b]pyridin-3-ylmethylene]- (9CI) (CA INDEX NAME)



RN 312971-46-3 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(2-hydroxyethoxy)methyl]-1H-pyrrolo[2,3-b]pyridin-3-ylmethylene]- (9CI) (CA INDEX NAME)

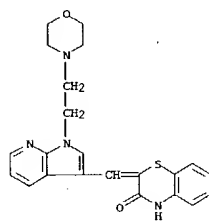


RN 312971-47-4 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(2-(dimethylamino)ethyl)-1H-pyrrolo[2,3-b]pyridin-3-ylmethylene]- (9CI) (CA INDEX NAME)

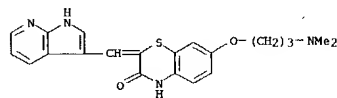


RN 312971-48-5 CAPLUS  
CN 1H-Pyrrolo[2,3-b]pyridine-1-acetic acid, 3-[[3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, ethyl ester (9CI) (CA INDEX NAME)

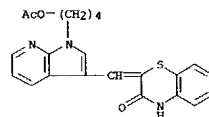
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(2-(4-morpholinyl)ethyl)-1H-pyrrolo[2,3-b]pyridin-3-ylmethylene]- (9CI) (CA INDEX NAME)



RN 312971-42-9 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-[3-(dimethylamino)propoxy]-2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)- (9CI) (CA INDEX NAME)

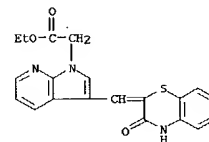


RN 312971-43-0 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(4-(acetyloxy)butyl)-1H-pyrrolo[2,3-b]pyridin-3-ylmethylene]- (9CI) (CA INDEX NAME)

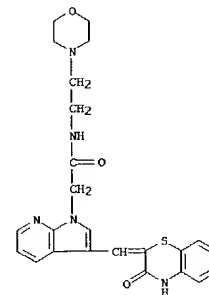


RN 312971-44-1 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(2-hydroxyethyl)-1H-pyrrolo[2,3-b]pyridin-3-ylmethylene]- (9CI) (CA INDEX NAME)

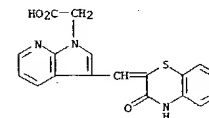
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312971-49-6 CAPLUS  
CN 1H-Pyrrolo[2,3-b]pyridine-1-acetamide, 3-[[3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



RN 312971-50-9 CAPLUS  
CN 1H-Pyrrolo[2,3-b]pyridine-1-acetic acid, 3-[[3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)

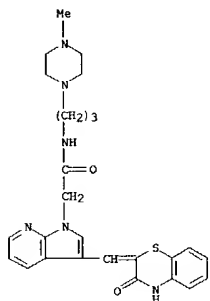


RN 312971-51-0 CAPLUS  
CN 1H-Pyrrolo[2,3-b]pyridine-1-acetamide, 3-[[3,4-dihydro-3-oxo-2H-1,4-

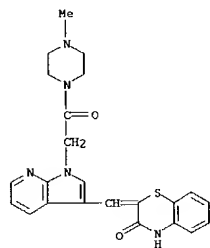
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L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 CN benzothiazin-2-ylidene)methyl]-N-[3-(4-methyl-1-piperazinyl)propyl]- (9CI) (CA INDEX NAME)

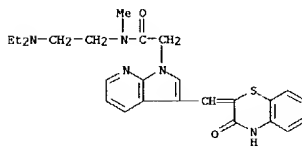


RN 312971-52-1 CAPLUS  
 CN Piperazine, 1-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-pyrrolo[2,3-b]pyridin-1-yl]acetyl]-4-methyl- (9CI) (CA INDEX NAME)

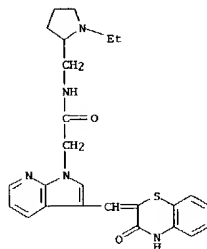


RN 312971-53-2 CAPLUS

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 CN 1H-Pyrrolo[2,3-b]pyridine-1-acetamide, N-[2-(diethylamino)ethyl]-3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-methyl- (9CI) (CA INDEX NAME)

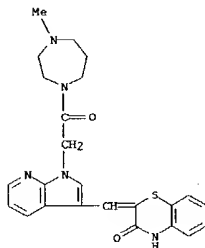


RN 312971-54-3 CAPLUS  
 CN 1H-Pyrrolo[2,3-b]pyridine-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[(1-ethyl-2-pyrrolidinyl)methyl]- (9CI) (CA INDEX NAME)

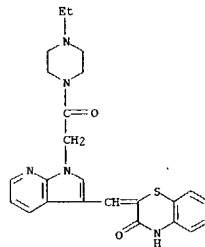


RN 312971-55-4 CAPLUS  
 CN 1H-1,4-Diazepine, 1-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-pyrrolo[2,3-b]pyridin-1-yl]acetyl]hexahydro-4-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

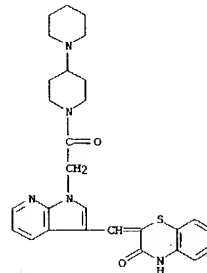


RN 312971-56-5 CAPLUS  
 CN Piperazine, 1-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-pyrrolo[2,3-b]pyridin-1-yl]acetyl]-4-ethyl- (9CI) (CA INDEX NAME)

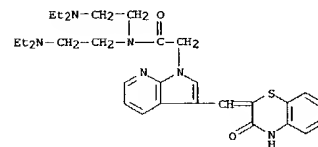


RN 312971-57-6 CAPLUS  
 CN 1,4'-Bipiperidine, 1'-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-pyrrolo[2,3-b]pyridin-1-yl]acetyl]- (9CI) (CA INDEX NAME)

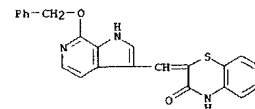
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312971-58-7 CAPLUS  
 CN 1H-Pyrrolo[2,3-b]pyridine-1-acetamide, N,N-bis[2-(diethylamino)ethyl]-3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)



RN 312971-59-8 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[7-(phenylmethoxy)-1H-pyrrolo[2,3-c]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)

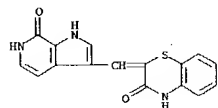


RN 312971-60-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6,7-dihydro-7-oxo-1H-pyrrolo[2,3-c]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)

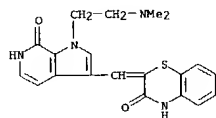
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11/18/2004

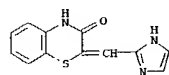
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312971-61-2 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(dimethylamino)ethyl]-6,7-dihydro-7-oxo-1H-pyrrole[2,3-c]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)

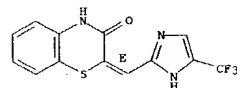


RN 312971-62-3 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-imidazol-2-yl)methylene]- (9CI) (CA INDEX NAME)



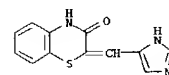
RN 312971-63-4 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(trifluoromethyl)-1H-imidazol-2-yl]methylene]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

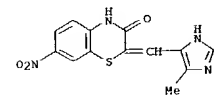


RN 312971-64-5 CAPLUS

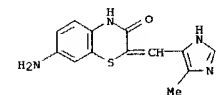
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



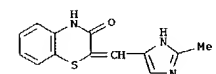
RN 312971-68-9 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-methyl-1H-imidazol-4-yl)methylene]-7-nitro- (9CI) (CA INDEX NAME)



RN 312971-69-0 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-amino-2-[(5-methyl-1H-imidazol-4-yl)methylene]- (9CI) (CA INDEX NAME)



RN 312971-70-3 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-methyl-1H-imidazol-4-yl)methylene]- (9CI) (CA INDEX NAME)

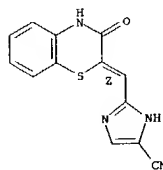


RN 312971-71-4 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-ethyl-5-methyl-1H-imidazol-4-yl)methylene]- (9CI) (CA INDEX NAME)

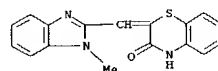
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CN 1H-imidazole-4-carbonitrile, 2-[(2)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)

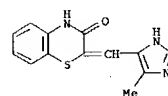
Double bond geometry as shown.



RN 312971-65-6 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-methyl-1H-benzimidazol-2-yl)methylene]- (9CI) (CA INDEX NAME)

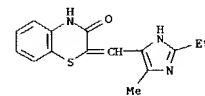


RN 312971-66-7 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-methyl-1H-imidazol-4-yl)methylene]- (9CI) (CA INDEX NAME)

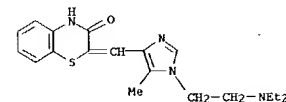


RN 312971-67-8 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-imidazol-4-yl)methylene]- (9CI) (CA INDEX NAME)

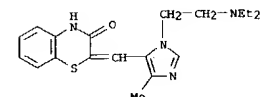
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



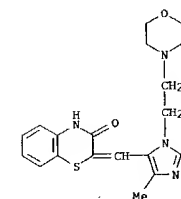
RN 312971-72-5 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-[2-(diethylamino)ethyl]-5-methyl-1H-imidazol-4-yl)methylene]- (9CI) (CA INDEX NAME)



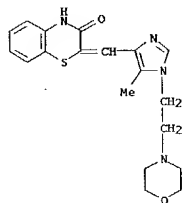
RN 312971-73-6 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-[2-(diethylamino)ethyl]-4-methyl-1H-imidazol-5-yl)methylene]- (9CI) (CA INDEX NAME)



RN 312971-74-7 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-methyl-1-[2-(4-morpholinyl)ethyl]-1H-imidazol-5-yl)methylene]- (9CI) (CA INDEX NAME)

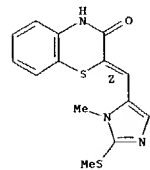


L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 RN 312971-75-8 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-methyl-1-[2-(4-morpholinyl)ethyl]-1H-imidazol-4-yl]methylene]- (9CI) (CA INDEX NAME)



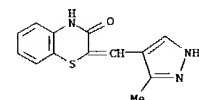
RN 312971-76-9 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-methyl-2-(methylthio)-1H-imidazol-5-yl]methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

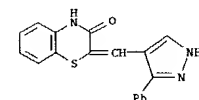


RN 312971-77-0 CAPLUS  
 CN 1H-Imidazole-4-carboxylic acid, 5-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, methyl ester (9CI) (CA INDEX NAME)

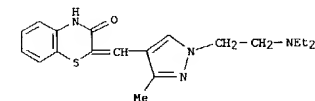
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-methyl-1H-pyrazol-4-yl)methylene]- (9CI) (CA INDEX NAME)



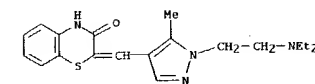
RN 312971-82-7 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-phenyl-1H-pyrazol-4-yl)methylene]- (9CI) (CA INDEX NAME)



RN 312971-83-8 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(diethylamino)ethyl]-3-methyl-1H-pyrazol-4-yl]methylene]- (9CI) (CA INDEX NAME)

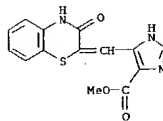


RN 312971-84-9 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(diethylamino)ethyl]-5-methyl-1H-pyrazol-4-yl]methylene]- (9CI) (CA INDEX NAME)



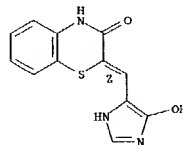
RN 312971-85-0 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-methyl-1-[2-(4-morpholinyl)ethyl]-1H-pyrazol-4-yl]methylene]- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

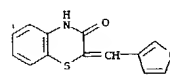


RN 312971-78-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-hydroxy-1H-imidazol-4-yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

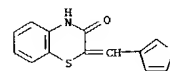
Double bond geometry as shown.



RN 312971-79-2 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(3-furanylmethylene)- (9CI) (CA INDEX NAME)

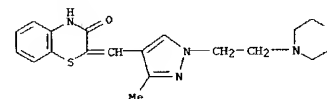


RN 312971-80-5 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(3-thienylmethylene)- (9CI) (CA INDEX NAME)

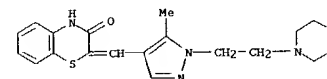


RN 312971-81-6 CAPLUS

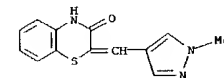
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



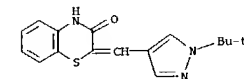
RN 312971-86-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-methyl-1-[2-(4-morpholinyl)ethyl]-1H-pyrazol-4-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312971-87-2 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-methyl-1H-pyrazol-4-yl)methylene]- (9CI) (CA INDEX NAME)

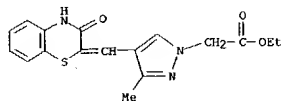


RN 312971-88-3 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(1,1-dimethylethyl)-1H-pyrazol-4-yl]methylene]- (9CI) (CA INDEX NAME)

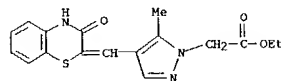


RN 312971-89-4 CAPLUS  
 CN 1H-Pyrazole-1-acetic acid, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-3-methyl-, ethyl ester (9CI) (CA INDEX NAME)

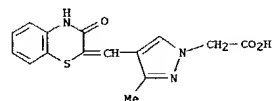
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



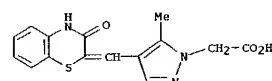
RN 312971-90-7 CAPLUS  
 CN 1H-Pyrazole-1-acetic acid, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 312971-91-8 CAPLUS  
 CN 1H-Pyrazole-1-acetic acid, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-3-methyl- (9CI) (CA INDEX NAME)

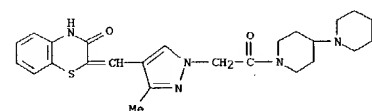


RN 312971-92-9 CAPLUS  
 CN 1H-Pyrazole-1-acetic acid, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-5-methyl- (9CI) (CA INDEX NAME)

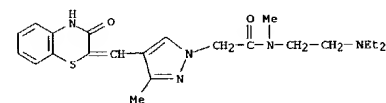


RN 312971-93-0 CAPLUS  
 CN 1H-Pyrazole-1-acetamide, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)ethyl]-3-methyl- (9CI) (CA INDEX NAME)

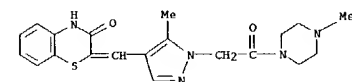
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 CN 1,4'-Bipiperidine, 1'-[[4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-3-methyl-1H-pyrazol-1-yl]acetyl]- (9CI) (CA INDEX NAME)



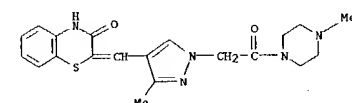
RN 312971-98-5 CAPLUS  
 CN 1H-Pyrazole-1-acetamide, N-[2-(diethylamino)ethyl]-4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N,3-dimethyl- (9CI) (CA INDEX NAME)



RN 312971-99-6 CAPLUS  
 CN Piperazine, 1-[[4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-5-methyl-1H-pyrazol-1-yl]acetyl]-4-methyl- (9CI) (CA INDEX NAME)



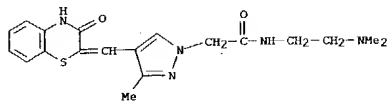
RN 312972-00-2 CAPLUS  
 CN Piperazine, 1-[[4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-3-methyl-1H-pyrazol-1-yl]acetyl]-4-methyl- (9CI) (CA INDEX NAME)



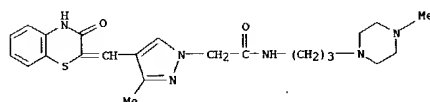
RN 312972-01-3 CAPLUS  
 CN 1H-Pyrazole-1-acetamide, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)ethyl]-3-methyl- (9CI) (CA INDEX NAME)

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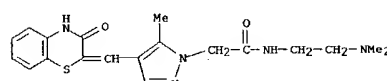
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



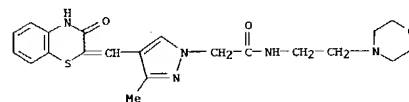
RN 312971-94-1 CAPLUS  
 CN 1H-Pyrazole-1-acetamide, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-3-methyl-N-[3-(4-methyl-1-piperazinyl)propyl]- (9CI) (CA INDEX NAME)



RN 312971-95-2 CAPLUS  
 CN 1H-Pyrazole-1-acetamide, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)ethyl]-5-methyl- (9CI) (CA INDEX NAME)

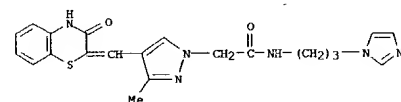


RN 312971-96-3 CAPLUS  
 CN 1H-Pyrazole-1-acetamide, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-3-methyl-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

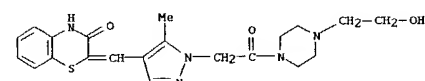


RN 312971-97-4 CAPLUS

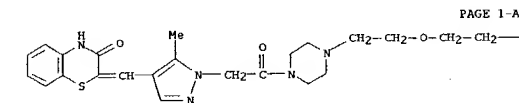
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 CN 1H-Pyrazole-1-acetamide, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[3-(1H-imidazol-1-yl)propyl]-3-methyl- (9CI) (CA INDEX NAME)



RN 312972-02-4 CAPLUS  
 CN 1-Piperazineethanol, 4-[[4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-5-methyl-1H-pyrazol-1-yl]acetyl]- (9CI) (CA INDEX NAME)



RN 312972-03-5 CAPLUS  
 CN Piperazine, 1-[[4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-5-methyl-1H-pyrazol-1-yl]acetyl]-4-[2-(2-hydroxyethoxy)ethyl]- (9CI) (CA INDEX NAME)



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PAGE 1-B

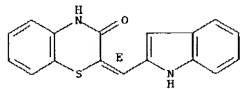
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RN 312972-04-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-2-ylmethylene)-, (2E)- (9CI) (CA INDEX NAME)

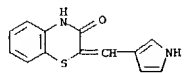
Double bond geometry as shown.

11/18/2004

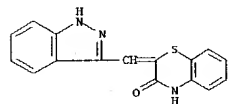
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



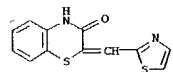
RN 312972-05-7 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-((1H-pyrazol-3-yl)methylene)- (9CI) (CA INDEX NAME)



RN 312972-06-8 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-((1H-indazol-3-yl)methylene)- (9CI) (CA INDEX NAME)

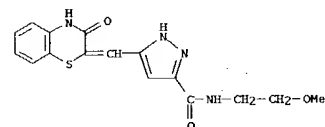


RN 312972-07-9 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-((2-thiazolyl)methylene)- (9CI) (CA INDEX NAME)

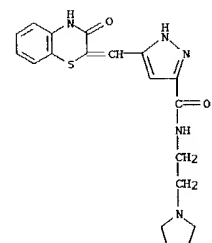


RN 312972-08-0 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-((1H-pyrazol-3-yl)methylene)- (9CI) (CA INDEX NAME)

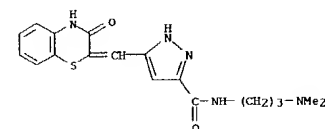
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312972-12-6 CAPLUS  
CN 1H-Pyrazole-3-carboxamide, 5-((3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl)-N-([2-(1-pyrrolidinyl)ethyl]- (9CI) (CA INDEX NAME)

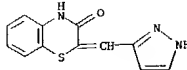


RN 312972-13-7 CAPLUS  
CN 1H-Pyrazole-3-carboxamide, 5-((3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl)-N-([3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

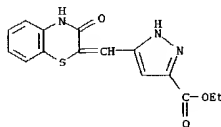


RN 312972-14-8 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-([2-(dimethylamino)-5-thiazolyl]methylene)- (9CI) (CA INDEX NAME)

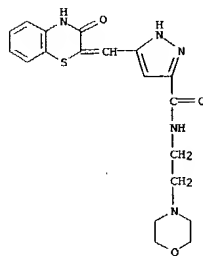
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312972-09-1 CAPLUS  
CN 1H-Pyrazole-3-carboxylic acid, 5-((3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl)-, ethyl ester (9CI) (CA INDEX NAME)

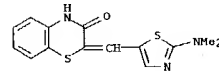


RN 312972-10-4 CAPLUS  
CN 1H-Pyrazole-3-carboxamide, 5-((3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl)-N-([2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

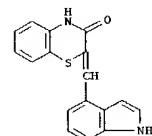


RN 312972-11-5 CAPLUS  
CN 1H-Pyrazole-3-carboxamide, 5-((3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl)-N-([2-methoxyethyl]- (9CI) (CA INDEX NAME)

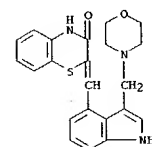
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



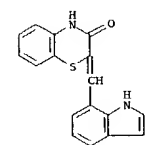
RN 312972-15-9 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-((1H-indol-4-yl)methylene)- (9CI) (CA INDEX NAME)



RN 312972-16-0 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-([3-(4-morpholinylmethyl)-1H-indol-4-yl]methylene)- (9CI) (CA INDEX NAME)



RN 312972-17-1 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-((1H-indol-7-yl)methylene)- (9CI) (CA INDEX NAME)

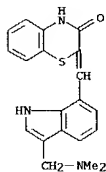


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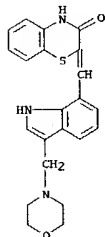
11/18/2004

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 312972-18-2 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-[(dimethylamino)methyl]-1H-indol-7-yl]methylene]- (9CI) (CA INDEX NAME)

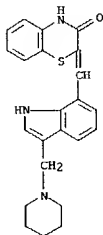


RN 312972-19-3 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-(4-morpholinylmethyl)-1H-indol-7-yl]methylene]- (9CI) (CA INDEX NAME)

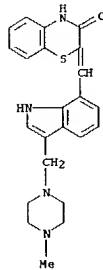


RN 312972-20-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-(1-piperidinylmethyl)-1H-indol-7-yl]methylene]- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

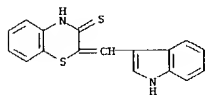


RN 312972-21-7 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-[(4-methyl-1-piperazinyl)methyl]-1H-indol-7-yl]methylene]- (9CI) (CA INDEX NAME)

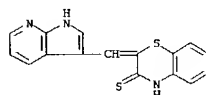


RN 312972-79-5 CAPLUS  
 CN 2H-1,4-Benzothiazine-3(4H)-thione, 2-(1H-indol-3-ylmethylene)- (9CI) (CA INDEX NAME)

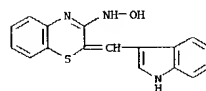
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



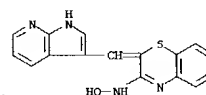
RN 312972-80-8 CAPLUS  
 CN 2H-1,4-Benzothiazine-3(4H)-thione, 2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)- (9CI) (CA INDEX NAME)



RN 312972-85-3 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-, oxime (9CI) (CA INDEX NAME)

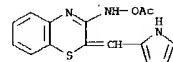


RN 312972-86-4 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)-, oxime (9CI) (CA INDEX NAME)

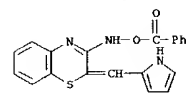


RN 312972-87-5 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrolo-2-ylmethylene)-, O-acetyloxime (9CI) (CA INDEX NAME)

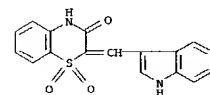
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



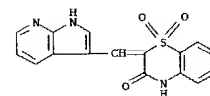
RN 312972-88-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrolo-2-ylmethylene)-, O-benzoyloxime (9CI) (CA INDEX NAME)



RN 312972-91-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-, 1,1-dioxide (9CI) (CA INDEX NAME)



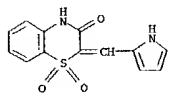
RN 312972-92-2 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)-, 1,1-dioxide (9CI) (CA INDEX NAME)



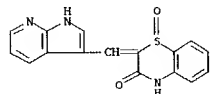
RN 312972-93-3 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrolo-2-ylmethylene)-, 1,1-dioxide (9CI) (CA INDEX NAME)



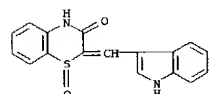
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



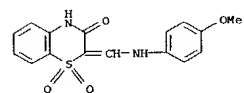
RN 312972-94-4 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 312972-95-5 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-indol-3-ylmethylene)-, 1,1-dioxide (9CI) (CA INDEX NAME)

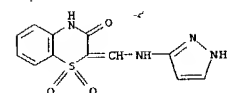


RN 312972-96-6 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)amino]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

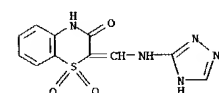


RN 312972-97-7 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methylphenyl)amino]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

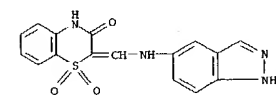
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
1,1-dioxide (9CI) (CA INDEX NAME)



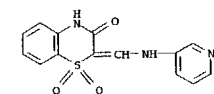
RN 312973-02-7 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-1,2,4-triazol-3-ylamino)methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 312973-03-8 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-indazol-5-ylamino)methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



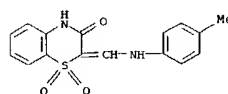
RN 312973-04-9 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-pyridinylamino)methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



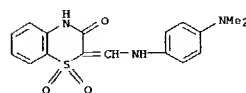
RN 312973-05-0 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-indol-5-ylamino)methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

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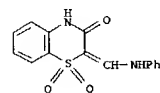
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



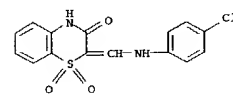
RN 312972-98-8 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(dimethylamino)phenyl]amino]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 312972-99-9 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(phenylamino)methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

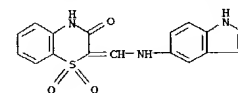


RN 312973-00-5 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)amino]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



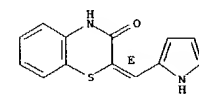
RN 312973-01-6 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-pyrazol-3-ylamino)methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



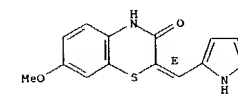
RN 312973-46-9 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-pyrrol-2-ylmethylene)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



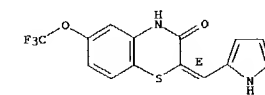
RN 312973-47-0 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-methoxy-2-[(1H-pyrrol-2-ylmethylene)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312973-48-1 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-methyl-2-[(1H-pyrrol-2-ylmethylene)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

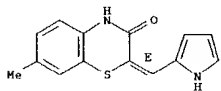


RN 312973-49-2 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-methyl-2-[(1H-pyrrol-2-ylmethylene)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

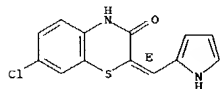
11/18/2004

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



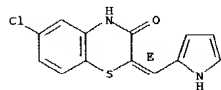
RN 312973-51-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-chloro-2-[(1H-pyrrol-2-yl)methylene]-, (2E)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



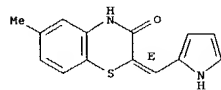
RN 312973-52-7 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 6-chloro-2-[(1H-pyrrol-2-yl)methylene]-, (2E)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



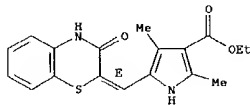
RN 312973-53-8 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 6-methyl-2-[(1H-pyrrol-2-yl)methylene]-, (2E)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 CN 1H-Pyrrole-3-carboxylic acid, 5-[(E)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-2,4-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)

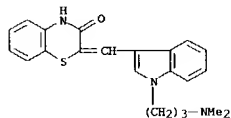
Double bond geometry as shown.



RN 312973-58-3 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[3-(dimethylamino)propyl]-1H-indol-3-yl]methylene]-, monomethanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 312970-52-8  
 CMF C22 H23 N3 O 5



CM 2

CRN 75-75-2  
 CMF C H4 O3 S



RN 312973-59-4 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-pyrrolo[2,3-b]pyridin-3-yl)methylene]-, monomethanesulfonate (9CI) (CA INDEX NAME)

CM 1

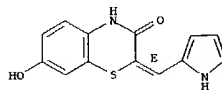
CRN 312971-38-3  
 CMF C16 H11 N3 O 5

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L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

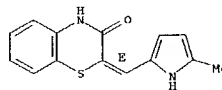
RN 312973-54-9 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-hydroxy-2-[(1H-pyrrol-2-yl)methylene]-, (2E)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312973-55-0 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-methyl-1H-pyrrol-2-yl)methylene]-, (2E)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 312973-56-1P 312973-57-2P 312973-58-3P

312973-59-4P 312973-60-7P 312973-61-8P

312973-62-9P 312973-63-0P 312973-64-1P

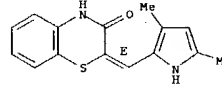
312973-65-2P 312974-25-7P 312974-26-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation and effects of benzothiazinones and benzoxazinones as protein kinase inhibitors)

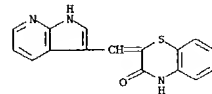
RN 312973-56-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,5-dimethyl-1H-pyrrol-2-yl)methylene]-, (2E)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312973-57-2 CAPLUS

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 2

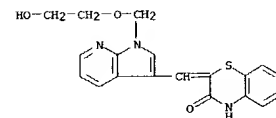
CRN 75-75-2  
 CMF C H4 O3 S



RN 312973-60-7 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[(2-hydroxyethoxy)methyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]-, monomethanesulfonate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 312971-39-4  
 CMF C19 H17 N3 O3 S



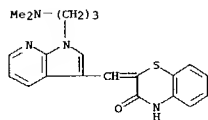
CM 2

CRN 75-75-2  
 CMF C H4 O3 S



11/18/2004

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 RN 312973-61-8 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[3-(dimethylamino)propyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]-, monomethanesulfonate (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 312971-40-7  
 CMF C21 H22 N4 O S



CM 2  
 CRN 75-75-2  
 CMF C H4 O3 S



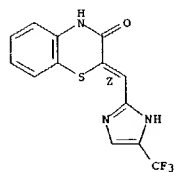
RN 312973-62-9 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(4-morpholinyl)ethyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]-, monomethanesulfonate (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 312971-41-8  
 CMF C22 H22 N4 O2 S

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 CRN 75-75-2  
 CMF C H4 O3 S



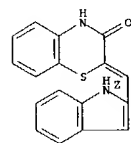
RN 312973-64-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(trifluoromethyl)-1H-imidazol-2-yl]methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



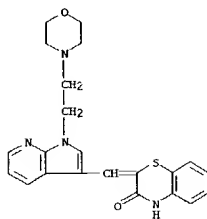
RN 312973-65-2 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-2-ylmethylene)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312974-25-7 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

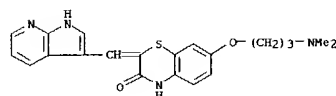


CM 2  
 CRN 75-75-2  
 CMF C H4 O3 S



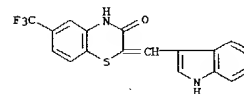
RN 312973-63-0 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-[3-(dimethylamino)propoxy]-2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)-, monomethanesulfonate (9CI) (CA INDEX NAME)

CM 1  
 CRN 312971-42-9  
 CMF C21 H22 N4 O2 S

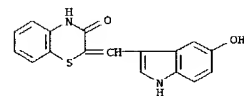


CM 2

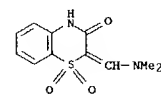
L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 312974-26-8 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-hydroxy-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



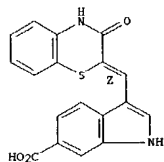
IT 70685-26-6 312973-44-7 312973-45-8  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation and effects of benzothiazinones and benzoxazinones as protein kinase inhibitors)  
 RN 70685-26-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(dimethylamino)methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 312973-44-7 CAPLUS  
 CN 1H-Indole-6-carboxylic acid, 3-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)

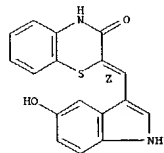
Double bond geometry as shown.

L4 ANSWER 11 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

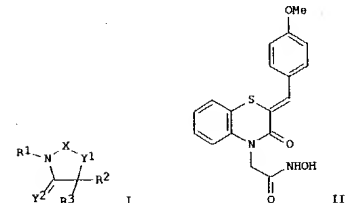


RN 312973-45-8 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-hydroxy-1H-indol-3-yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L4 ANSWER 12 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

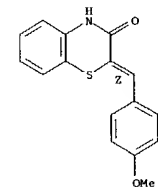


AB The title compds. [I; X = (un)substituted alkylene, ortho-heteroarylene; Y1 = O, S, SO, SO2; Y2 = O, S; one of R1 and R3 = (CH2)nCR5R6CONH2; the other R1 and R3 = H, (un)substituted alkyl, cycloalkyl; R2 = H, (un)substituted alkyl, alkenyl, etc.; R4-R6 = H, (un)substituted alkyl, alkenyl, etc.; or R5 may be joined with R4 or R6 to form, with the carbon atom which they attach (un)substituted cycloalkane or heterocycloalkane; n = 0-4], useful as matrix metallo-proteinase (e.g., MMP-2, MMP-3, MMP-9, and MMP-13) inhibitors, were prepared. E.g., a multi-step synthesis of 1,4-benzothiazin-3(4H)-one II which showed IC50 of 1.0 μM against MMP-2, and 20% inhibition of TNF-α production at 5 μM, was given.

IT 55043-26-0  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of hydroxamic acid derivs. as matrix metallo-proteinase inhibitors)

RN 55043-26-0 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 302036-56-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of hydroxamic acid derivs. as matrix metallo-proteinase inhibitors)

Habte

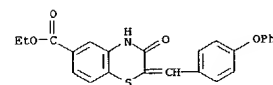
L4 ANSWER 12 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:756696 CAPLUS  
 DOCUMENT NUMBER: 133:321892  
 TITLE: Preparation of hydroxamic acid derivatives as matrix metallo-proteinase inhibitors  
 INVENTOR(S): Scarlato, Gerard Robert; Hadida, Ruah Sara Sabina; Nishimura, Tamiki; Nakatsuka, Masashi; Samizo, Fumio; Kamikawa, Yumiko; Houtigai, Hitoshi  
 PATENT ASSIGNEE(S): Sumitomo Pharmaceuticals Co., Ltd., Japan  
 SOURCE: PCT Int. Appl., 218 pp.  
 CODEN: PIXX02  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.             | KIND   | DATE              | APPLICATION NO. | DATE       |
|------------------------|--|-------------------|-----------------|------------|
| WO 2000063197          | A1   | 20001026          | WO 2000-US10383 | 20000419   |
| W:                     | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |                   |                 |            |
| RW:                    | GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, CA, GN, GW, ML, MR, NE, SN, TD, TG   |                   |                 |            |
| CA 2369947             | AA   | 20001026          | CA 2000-2369947 | 20000419   |
| EP 1173427             | A1   | 20020123          | EP 2000-922291  | 20000419   |
| R:                     | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO   |                   |                 |            |
| JP 2002542238          | T2   | 20021210          | JP 2000-612289  | 20000419   |
| US 6713477             | B1   | 20040330          | US 2001-959192  | 20011109   |
| PRIORITY APPLN. INFO.: |  |                   | US 1999-129933P | P 19990419 |
|                        |  |                   | WO 2000-US10383 | W 20000419 |
| OTHER SOURCE(S):       |  | MARFAT 133:321892 |                 |            |
| GI                     |  |                   |                 |            |

L4 ANSWER 12 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 302836-56-2 CAPLUS  
 CN 2H-1,4-Benzothiazine-6-Carboxylic acid, 3,4-dihydro-3-oxo-2-[(4-phenoxyphenyl)methylene]-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5  
 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

11/18/2004

L4 ANSWER 13 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:665626 CAPLUS  
 DOCUMENT NUMBER: 133:253885  
 TITLE: Thiazine-indigo compounds, their production and use and intermediates therefor  
 INVENTOR(S): Borchert, Till; Kaul, Hansi Lal; Piastra, Bruno; Wolf, Valerie; Rothe, Petra; Unverdorben, Leonhard  
 PATENT ASSIGNEE(S): Clariant Finance (BVI) Limited, Virgin I. (Brit.)  
 SOURCE: Eur. Pat. Appl., 36 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| EP 1036821  | A1   | 20000920 | EP 2000-810221  | 20000316 |
| EP 1036821  | B1   | 20040128 |                 |          |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO |      |          |                 |          |
| JP 2000344757   | A2   | 20001212 | JP 2000-58620   | 20000303 |
| US 6472527  | B    | 20021029 | US 2000-525839  | 20000315 |
| AT 258571   | B1   | 20040215 | AT 2000-810221  | 20000316 |
| PRIORITY APPLN. INFO.: GB 1999-6120 A 19990318<br>GB 1999-18805 A 19990811                |      |          |                 |          |

OTHER SOURCE(S): MARPAT 133:253885  
 AB New heterocyclic compds. are disclosed which are used as intermediates for the preparation of trans-thiazine-indigo pigments which are in part new compds.  
 and can be used for the mass pigmentation of organic substrates. Also disclosed are different environmentally friendly water-based processes for the preparation of the new heterocyclic compds. and the corresponding pigments.

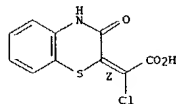
Thus, o-aminothiopheneol was cyclocondensed with 2,3-dichloromaleic acid to give a benzothiazine derivative which was then cyclocondensed with bis(4-carboxamido-2-nitrophenyl) disulfide to provide cis-thiazine-indigo compound which was isomerized to the trans red-orange pigment.

IT 106660-05-3P 294867-02-0P  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; production of thiazine-indigo pigments)

RN 106660-05-3 CAPLUS  
 CN Acetic acid, chloro(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, (2Z)- (9CI) (CA INDEX NAME)

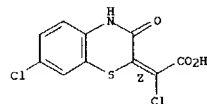
Double bond geometry as shown.

L4 ANSWER 13 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 294867-02-0 CAPLUS  
 CN Acetic acid, chloro(7-chloro-3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 14 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:616053 CAPLUS  
 DOCUMENT NUMBER: 134:193369  
 TITLE: Synthesis and structural study of substituted arylideneimidazolidines and arylidenebenzothiazines  
 AUTHOR(S): Brandao, S. S. F.; Guarda, V. L.; Pitta, I. R.; Chantegrel, J.; Perrissin, M.; Souza, V. M.; Galdino, S. L.; Thomasson, F.; Lima, M. C. A.; Leite, L. F. C. C.; Luu-Duc, C.  
 CORPORATE SOURCE: Universidade Federal de Pernambuco, Recife, 50.670-901, Brazil  
 SOURCE: Bollettino Chimico Farmaceutico (2000), 139(2), 54-58  
 CODEN: BCFPAI; ISSN: 0006-6648  
 PUBLISHER: Societa Editoriale Farmaceutica  
 DOCUMENT TYPE: Journal  
 LANGUAGE: French  
 OTHER SOURCE(S): CASREACT 134:193369

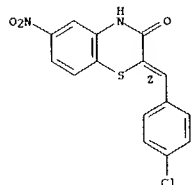
AB Synthesis and physicochem. properties of six 5-arylidene-3-benzyl-1-methyl-2-thioxoimidazolidin-4-ones and three 2-arylidene-6-nitro-2H-1,4-benzothiazin-3(4H)-ones have been described. These new compds. were synthesized by the Knoevenagel condensation reaction from aromatic aldehydes.

The N-alkylation reaction of arylidenebenzothiazines by Me iodide gives the N-methylarylidenbenzothiazines.

IT 328001-00-9P 328001-01-0P 328001-02-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and structural study of arylideneimidazolidines and arylidenebenzothiazines)

RN 328001-00-9 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]-6-nitro-, (2Z)- (9CI) (CA INDEX NAME)

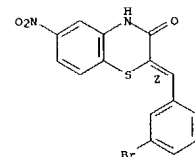
Double bond geometry as shown.



RN 328001-01-0 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-bromophenyl)methylene]-6-nitro-, (2Z)- (9CI) (CA INDEX NAME)

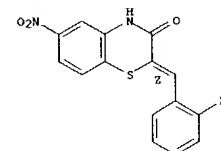
Double bond geometry as shown.

L4 ANSWER 14 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



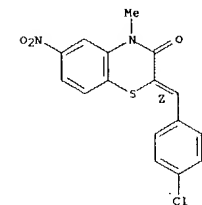
RN 328001-02-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-fluorophenyl)methylene]-6-nitro-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



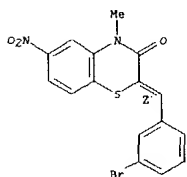
IT 328001-03-2P 328001-04-3P 328001-05-4P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and structural study of arylideneimidazolidines and arylidenebenzothiazines)  
 RN 328001-03-2 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]-4-methyl-6-nitro-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



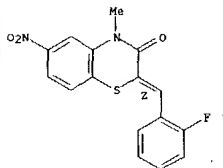
L4 ANSWER 14 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 RN 328001-04-3 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-bromophenyl)methylene]-4-methyl-6-nitro-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 328001-05-4 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-fluorophenyl)methylene]-4-methyl-6-nitro-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 15 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1999:487539 CAPLUS  
 DOCUMENT NUMBER: 131:129999  
 TITLE: Preparation of oxazolidines substituted with bicycles as antimicrobial agents  
 INVENTOR(S): Bartel, Stephan; Guarnieri, Walter; Haebich, Dieter; Raddatz, Siegfried; Riedl, Bernd; Rosentetter, Ulrich; Ruppelt, Martin; Stolle, Andreas; Wild, Hanno; Endeemann, Rainer; Kroll, Hein-Peter  
 PATENT ASSIGNEE(S): Bayer A.-G., Germany  
 SOURCE: Ger. Offen. 88 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO.  | DATE     |
|---|------|----------|------------------|----------|
| DE 19802239   | A1   | 19990729 | DE 1998-19802239 | 19980122 |
| WO 9937641  | A1   | 19990729 | WO 1999-EP96     | 19990109 |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |      |          |                  |          |
| RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CH, GA, GN, GW, ML, MR, NE, SN, TD, TG  |      |          |                  |          |
| AU 9926161  | A1   | 19990809 | AU 1999-26161    | 19990109 |
| EP 1049692  | A1   | 20001108 | EP 1999-906112   | 19990109 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI   |      |          |                  |          |
| JP 2002501065   | T2   | 20020115 | JP 2000-528563   | 19990109 |
| PRIORITY APPLN. INFO.: DE 1998-19802239 A 19980122  |      |          |                  |          |
| WO 1999-EP96 W 19990109   |      |          |                  |          |
| OTHER SOURCE(S): HANPAT 131:129999  |      |          |                  |          |
| GI  |      |          |                  |          |

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

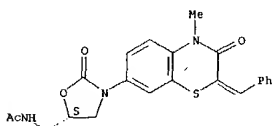
AB Title compds. [1: R = Me, Et, COOMe, (CH<sub>3</sub>)<sub>2</sub>CH, R<sub>1</sub> = H; R-R<sub>1</sub> = (CH<sub>2</sub>)<sub>3</sub>; R<sub>3</sub> = OH, OSO<sub>2</sub>Me, N<sub>3</sub>, NH<sub>2</sub>, NHCONH<sub>2</sub>, NHAc, NHCOCH<sub>2</sub>Br, NHCOOMe, NHCOEt, NHCOCF<sub>3</sub>, NHCOOBu-t, cyclopropylcarbonylamino, 2-furylcarbonylamino, MIP (OMe)<sub>2</sub>O, etc.; X = C=O, CH<sub>2</sub>, S, S=O, SO<sub>2</sub>; Y = CH<sub>2</sub>, CHCH<sub>3</sub>, NMe, C=O, C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>C, C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>C, 4-ClC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>C, 4-MeOC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>C, etc.; Z = O, CH<sub>2</sub>], enantiomers, and salts are prepared. Thus, the title compound II was prepared from 7-nitro-2H-1,4-benzoxazin-3-one, C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>COONHCl, and (R)-(-)-glycidyl butyrate via reduction cyclization and was tested against Staphylococcus aureus, Mycobacterium smegmatis, and Streptococcus pneumoniae.

IT 233775-06-9P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological

L4 ANSWER 15 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent) (prepn. of oxazolidines substituted with bicycles as antimicrobial agents)

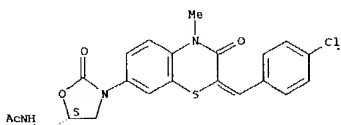
RN 233775-06-9 CAPLUS  
 CN Acetamide, N-[[[(5S)-3-[3,4-dihydro-4-methyl-3-oxo-2-(phenylmethylene)-2H-1,4-benzothiazin-7-yl]-2-oxo-5-oxazolidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



IT 233775-07-0P 233775-08-1P 233775-09-2P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation of oxazolidines substituted with bicycles as antimicrobial agents)  
 RN 233775-07-0 CAPLUS  
 CN Acetamide, N-[[[(5S)-3-[2-[(4-chlorophenyl)methylene]-3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-7-yl]-2-oxo-5-oxazolidinyl)methyl]- (9CI) (CA INDEX NAME)

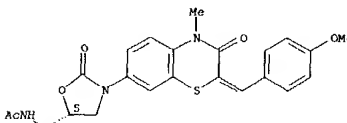
Absolute stereochemistry.  
 Double bond geometry unknown.



RN 233775-08-1 CAPLUS  
 CN Acetamide, N-[[[(5S)-3-[3,4-dihydro-2-[(4-methoxyphenyl)methylene]-4-methyl-3-oxo-2H-1,4-benzothiazin-7-yl]-2-oxo-5-oxazolidinyl)methyl]- (9CI) (CA INDEX NAME)

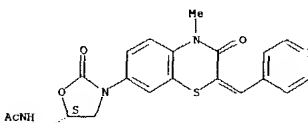
Absolute stereochemistry.  
 Double bond geometry unknown.

L4 ANSWER 15 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 233775-09-2 CAPLUS  
 CN Acetamide, N-[[[(5S)-3-[3,4-dihydro-4-methyl-3-oxo-2-(4-pyridinylmethylene)-2H-1,4-benzothiazin-7-yl]-2-oxo-5-oxazolidinyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



L4 ANSWER 16 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:284060 CAPLUS

DOCUMENT NUMBER: 131:44782

TITLE: Synthesis of 2-substituted 6,8-dichloro-3,4-dihydro-3-oxo-2H-1,4-benzothiazine 1,1-dioxides and 1-oxides as glycine-NMDA receptor antagonists

AUTHOR(S): Varano, Flavia; Catarzi, Daniela; Colotta, Vittoria; Filacchioni, Guido; Cecchi, Lucia; Galli, Alessandro; Costagli, Chiara

CORPORATE SOURCE: Dipartimento di Scienze Farmaceutiche, Università di Firenze, Florence, 50121, Italy

SOURCE: Farmaco (1998), 53(12), 752-757

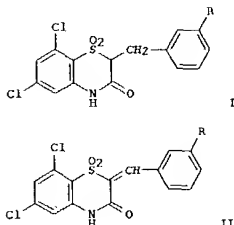
CODEN: FRMCE8; ISSN: 0014-827X

PUBLISHER: Elsevier Science S.A.

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB Title compds. I (R = H, Br), II (R = H, Br), and the corresponding monoxides, bioisosteres of RPR 104632, in which the 3-carboxylic group was replaced by a carbonyl group, were synthesized. Comparative in vitro pharmacol. studies on this series of RPR 104632 analogs were performed using receptor binding assays. None of these compds. showed detectable binding affinity for the glycine-NMDA receptor.

227012-79-5R 227012-80-8R 227012-81-9R

227012-82-0R

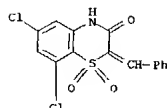
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and lack of affinity for glycine-NMDA receptor)

RN 227012-79-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 6,8-dichloro-2-(phenylmethylene)-, 1,1-dioxide (9CI) (CA INDEX NAME)

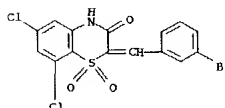
L4 ANSWER 16 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

(Continued)



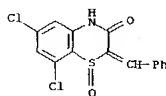
RN 227012-80-8 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-bromophenyl)methylene]-6,8-dichloro-, 1,1-dioxide (9CI) (CA INDEX NAME)



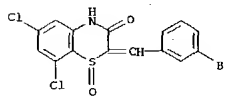
RN 227012-81-9 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 6,8-dichloro-2-(phenylmethylene)-, 1-oxide (9CI) (CA INDEX NAME)



RN 227012-82-0 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-bromophenyl)methylene]-6,8-dichloro-, 1-oxide (9CI) (CA INDEX NAME)



REFERENCE COUNT:

14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS

L4 ANSWER 16 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 17 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:248133 CAPLUS

DOCUMENT NUMBER: 129:4618

TITLE: Pummerer reaction of 2-vinylcyclopropyl sulfoxides: generation and reactions of butadienylthionium ion intermediates

AUTHOR(S): Iwama, Tetsuo; Matsumoto, Harutoshi; Shimizu, Hiroshi; Kataoka, Tadashi; Muraoka, Osamu; Tanabe, Genzoh

CORPORATE SOURCE: Gifu Pharmaceutical University, Gifu, 502-8585, Japan

SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1998), (9), 1569-1576

CODEN: JCPB4; ISSN: 0300-922X

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 129:4618

AB Generation of butadienylthionium ions in the Pummerer reactions of 2-vinylcyclopropyl sulfoxides was studied. Although the Pummerer reaction of 2-vinylcyclopropyl sulfoxides are complicated, benzothiazinone derivs. smoothly react with trifluoroacetic anhydride to give 1,3-dienes in good yields. The reactions proceed via butadienylthionium ions by proton abstraction from the 2'-Me group or the cyclopropane ring. Reactions of disubstituted benzothiazinones provided cyclic dienes while treatment of mono- or unsubstituted derivs. gave acyclic conjugated dienes. Vinylcyclopropyl sulfoxides were prepared by MCPBA oxidation of the corresponding 2-vinylcyclopropyl sulfides, resp., which were obtained by cyclopropanation of  $\alpha$ -chloro sulfides with 1,3-dienes via a 5,6-dihydro-2H-thiopyranium intermediate.

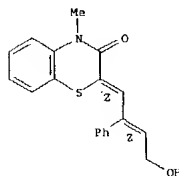
IT 207507-89-9R

RL: SPN (Synthetic preparation); PREP (Preparation)  
(Pummerer reaction of vinylcyclopropyl sulfoxides and generation and reaction of butadienylthionium intermediates)

RN 207507-89-9 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2Z)-4-hydroxy-2-phenyl-2-butenylidene]-4-methyl-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 207506-88-5R 207506-89-6R 207506-90-9R

207506-91-0R 207506-92-1R 207506-93-2R

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 207506-88-5 CAPLUS

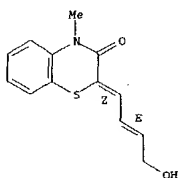
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2E)-4-hydroxy-2-butenylidene]-4-methyl-

Hatte

11/18/2004

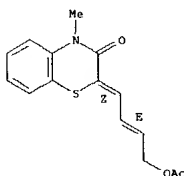
L4 ANSWER 17 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 , (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 207506-89-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2E)-4-(acetoxy)-2-butenylidene]-4-methyl-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

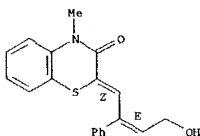


RN 207506-90-9 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2E)-4-(hydroxy)-2-methyl-2-butenylidene]-4-methyl-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

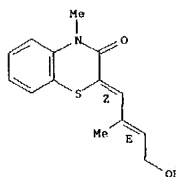
L4 ANSWER 17 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 RN 207506-93-2 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2E)-4-(hydroxy)-2-phenyl-2-butenylidene]-4-methyl-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



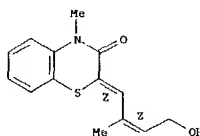
REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 17 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



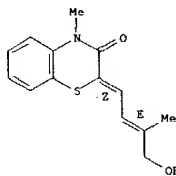
RN 207506-91-0 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2Z)-4-(hydroxy)-2-methyl-2-butenylidene]-4-methyl-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

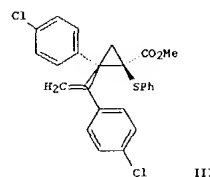
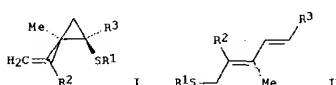


RN 207506-92-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2E)-4-(hydroxy)-3-methyl-2-butenylidene]-4-methyl-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L4 ANSWER 18 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1997:261364 CAPLUS  
 DOCUMENT NUMBER: 126:343367  
 TITLE: Acid-promoted isomerization of 1-acceptor-1-sulfenyl-substituted 2-vinylcyclopropanes with C1-C2 bond fission and novel 1,5-sulfenyl rearrangement  
 AUTHOR(S): Iwama, Tetsuo; Hatsumoto, Harutoshi; Katsuka, Tadashi  
 CORPORATE SOURCE: Gifu Pharmaceutical University, Gifu, 502, Japan  
 SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1997), (6), 835-843  
 CODEN: JCPRB4; ISSN: 0300-922X  
 PUBLISHER: Royal Society of Chemistry  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 126:343367  
 GI



AB The 1-acceptor-1-sulfenyl-substituted vinylcyclopropane derivs., i.e., (ethenyl)(mercapto)cyclopropane derivs., I [R1 = (un)substituted Ph, Me; R2 = H, Me; R3 = CO2Me, cyano] underwent C1-C2 bond fission and 1,5-sulfenyl rearrangement to give 6-sulfenyl-α,β-unsatd. carboxylic esters and nitriles II (same R1-R3), by treatment with acid. The reactions proceed smoothly by use of a sulfonic acid such as p-TsOH·H2O, CF3SO3H etc. in a non-polar solvent. The result obtained from reactions of III implied that the C1-C2 bond cleavage and deprotonation from the C2-Me group of substrates I occur via a concerted process. A cross-over experiment showed that the 1,5-sulfenyl shift proceeded intermolecularly. Addition of a catalytic amount of m-MeC6H4SH improves the yield of the rearranged product II.  
 IT 190005-72-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)  
 RN 190005-72-2 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2,3-dimethyl-2-butenylidene)-4-methyl-,

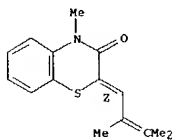
11/18/2004

Hahte



L4 ANSWER 18 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
(Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 19 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:885820 CAPLUS  
DOCUMENT NUMBER: 124:55745  
TITLE: Study of microwave irradiation effect on condensation of 6-R-3-formylchromones with active methylene compounds

AUTHOR(S): GAGPAROVA, Renata; LACOVA, Margita  
CORPORATE SOURCE: Dep. Org. Chem., Comenius Univ., Bratislava, 842 15, Slovakia

SOURCE: Collection of Czechoslovak Chemical Communications (1995), 60(7), 1178-85  
CODEN: CCCCAK; ISSN: 0010-0765

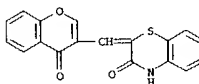
PUBLISHER: Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic

DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 124:55745

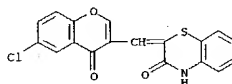
AB Condensation of 6-R-3-formylchromones with 3,3-dimethyl-1,3-cyclohexanedione, 1,3-indandione, 1,2'-bindenylidene-3,1',3'-trione (bindone), 2-oxo-1,4-benzothiazine, and 3-oxo-2,3-dihydro-1-thia-3a,8-diazacyclo-pent[aj]indene by the "classical" method, as well as condensation in a microwave oven, has been studied. Some subsequent reactions of these products are described.

IT 172170-67-1P 172170-70-6P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(study of microwave irradiation effect on condensation of formylchromones with active methylene compds.)

RN 172170-67-1 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-oxo-4H-1-benzopyran-3-yl)methylene]- (9CI) (CA INDEX NAME)

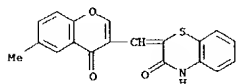


RN 172170-70-6 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(6-chloro-4-oxo-4H-1-benzopyran-3-yl)methylene]- (9CI) (CA INDEX NAME)

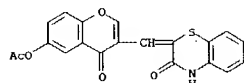


IT 172170-68-2P 172170-69-3P 172170-72-8P  
172170-73-9P

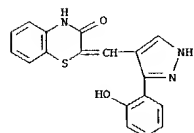
L4 ANSWER 19 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(study of microwave irradiation effect on condensation of formylchromones with active methylene compds.)  
RN 172170-68-2 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(6-methyl-4-oxo-4H-1-benzopyran-3-yl)methylene]- (9CI) (CA INDEX NAME)



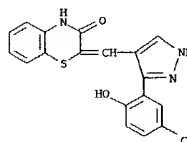
RN 172170-69-3 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(6-(acetyloxy)-4-oxo-4H-1-benzopyran-3-yl)methylene]- (9CI) (CA INDEX NAME)



RN 172170-72-8 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-(2-hydroxyphenyl)-1H-pyrazol-4-yl)methylene]- (9CI) (CA INDEX NAME)



RN 172170-73-9 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-(5-chloro-2-hydroxyphenyl)-1H-pyrazol-4-yl)methylene]- (9CI) (CA INDEX NAME)



L4 ANSWER 19 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 20 OF 90 CAPLUS COPYRIGHT 2004 ACS ON STN

ACCESSION NUMBER: 1995:784965 CAPLUS

DOCUMENT NUMBER: 123:198818

TITLE: Preparation and formulation of benzothiazine

derivatives as antioxidants

INVENTOR(S): Kawashima, Yoichi; Ota, Atsutoshi; Mibu, Hiroyuki;

Mitsunobu, Kenichiro

PATENT ASSIGNEE(S): Santen Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|--|------|----------|-----------------|----------|
| WO 9513269   | A1   | 19950518 | WO 1994-JP1907  | 19941110 |
| W: CA, CN, FI, KR, NO, US  |      |          |                 |          |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE |      |          |                 |          |
| JP 07138241  | A2   | 19950530 | JP 1993-283684  | 19931112 |
| JP 2840807   | B2   | 19981224 |                 |          |
| JP 07138242  | A2   | 19950530 | JP 1993-283685  | 19931112 |
| JP 2840808   | B2   | 19981224 |                 |          |
| PRIORITY APPL. INFO.: JP 1993-283684 19931112                      |      |          |                 |          |
| JP 1993-283685 19931112  |      |          |                 |          |

OTHER SOURCE(S): MARPAT 123:198818

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\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The title compds. I [R1 represents optionally protected hydroxy; R2 represents lower alkyl; R3 represents hydrogen, lower alkyl, optionally protected hydroxy or lower alkoxy, wherein the lower alkyl group may be substituted by optionally protected hydroxy, amino or lower alkylamino; R4 represents carbonyl which may be in the form of an ester or amide; A represents alkylene; and B represents CH2, etc.] are prepared. I stabilize proteins, inhibit lipid peroxide formation, and are useful as potential agents for the treatment of cataract. The title compds. II and III (preparation given) in vitro at 10<sup>-6</sup> M gave 99% inhibition of lipid peroxidation.

IT 156776-32-8

RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of benzothiazine derivs. as antioxidants)

RN 156776-32-8 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]- (9CI) (CA INDEX NAME)

L4 ANSWER 21 OF 90 CAPLUS COPYRIGHT 2004 ACS ON STN

ACCESSION NUMBER: 1995:761702 CAPLUS

DOCUMENT NUMBER: 123:169638

TITLE: Preparation of 3-oxo-1,4-benzothiazines as protein

stabilizers and lipid peroxide formation inhibitors

INVENTOR(S): Kawashima, Yoichi; Ota, Atsutoshi; Morikawa, Yuko;

Mibu, Hiroyuki

PATENT ASSIGNEE(S): Santen Pharmaceutical Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 21 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

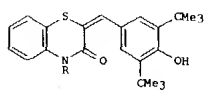
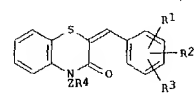
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| EP 657444   | A1   | 19950614 | EP 1994-119182  | 19941205 |
| EP 657444   | B1   | 19990331 |                 |          |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE |      |          |                 |          |
| US 5547952  | A    | 19960820 | US 1994-347043  | 19941130 |
| JP 07215953   | A2   | 19950815 | JP 1994-300907  | 19941205 |
| JP 2964380  | B2   | 19991018 |                 |          |
| AT 178323   | E    | 19990415 | AT 1994-119182  | 19941205 |
| CA 2137626  | AA   | 19950610 | CA 1994-2137626 | 19941208 |
| FI 9405762  | A    | 19950610 | FI 1994-5762    | 19941208 |
| NO 9404762  | A    | 19950612 | NO 1994-4762    | 19941208 |
| CN 1109882  | A    | 19951011 | CN 1994-112918  | 19941208 |
| PRIORITY APPL. INFO.: JP 1993-309131 A 19931209                       |      |          |                 |          |

OTHER SOURCE(S): MARPAT 123:169638

GI



AB Title compds. [I: R1 = (protected) hydroxy; R2 = alkyl; R3 = H, OH, alkyl, alkoxy, etc.; R4 = tetrazolyl, alkoxy-sulfonyl, dialkoxy-sulfinyl, etc.; Z = alkylene] were prepared. Thus, title compound II (R = H) was N-alkylated

with

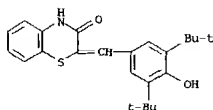
ClCH2OMe and the product treated successively with Me3SiI and (EtO)3P to give, after saponification, II [R: CH2P(O)(OH)2] which gave 98.8 and 100% inhibition of bovine serum denaturation and lipid peroxide formation in vitro at 10<sup>-4</sup> and 10<sup>-5</sup>M, resp.

IT 156776-32-8

RL: RCT (Reactant); RACT (Reactant or reagent)

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L4 ANSWER 20 OF 90 CAPLUS COPYRIGHT 2004 ACS ON STN (Continued)

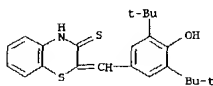


IT 167549-24-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of benzothiazine derivs. as antioxidants)

RN 167549-24-8 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-thione, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]- (9CI) (CA INDEX NAME)

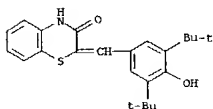


L4 ANSWER 21 OF 90 CAPLUS COPYRIGHT 2004 ACS ON STN (Continued)

(prepn. of 3-oxo-1,4-benzothiazines as protein stabilizers and lipid peroxide formation inhibitors)

RN 156776-32-8 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]- (9CI) (CA INDEX NAME)



11/18/2004

L4 ANSWER 22 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:517831 CAPLUS

DOCUMENT NUMBER: 123:83330

TITLE: Generation and reactions of butadienylthionium ions from 2-vinylcyclopropyl sulfoxides under Pummerer conditions

AUTHOR(S): Kataoka, Tadashi; Matsumoto, Harutoshi; Iwama, Tetsuo; Ito, Taisiro; Shimizu, Hiroshi  
Gifu Pharmaceutical University, Gifu, 502, Japan  
Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1995), (7), 737-9

CODEN: JCPRB4; ISSN: 0300-922X

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 123:83330

AB Treatment of 2-vinylcyclopropyl sulfoxides lacking an  $\alpha$ -hydrogen with acid anhydrides produced butadienylthionium ion intermediates to give cyclic or acyclic conjugated dienes.

IT 165333-07-9P 165333-08-0P

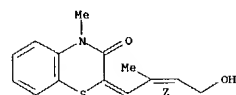
RL: SPN (Synthetic preparation); PREP (Preparation)

(Pummerer reaction of vinylcyclopropyl sulfoxides)

RN 165333-07-9 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(4-hydroxy-2-methyl-2-butenylidene)-4-methyl-, (?E)- (9CI) (CA INDEX NAME)

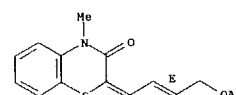
Double bond geometry as described by E or Z.



RN 165333-08-0 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-(acetyloxy)-2-butenylidene)-4-methyl-, (?E)- (9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.



IT 165333-04-6P 165333-05-7P 165333-06-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

L4 ANSWER 23 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:508814 CAPLUS

DOCUMENT NUMBER: 121:108814

TITLE: Preparation of 3-oxo-1,4-benzothiazine derivatives having protein stabilization activity and inhibiting formation of lipid peroxide

INVENTOR(S): Kawashima, Yoichi; Ota, Atsutoshi; Mibu, Hiroyuki  
Sanofi-Schering-Plough Co., Ltd., Japan

PCT Int. Appl., 43 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

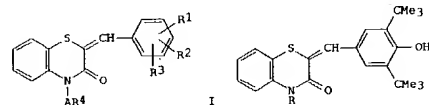
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE       |
|---|------|----------|-----------------|------------|
| WO 9405647  | A1   | 19940317 | WO 1993-JP1190  | 19930825   |
| W: CA, JP, KR, US   |      |          |                 |            |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE    |      |          |                 |            |
| EP 627425   | A1   | 19941207 | EP 1993-919568  | 19930825   |
| EP 627425   | B1   | 20001102 |                 |            |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE |      |          |                 |            |
| JP 2829442  | B2   | 19981125 | JP 1993-507042  | 19930825   |
| AT 197297   | E    | 20001115 | AT 1993-919568  | 19930825   |
| US 5496817  | A    | 19960305 | US 1994-211940  | 19940422   |
| PRIORITY APPL. INFO.:   |      |          | JP 1992-231669  | A 19920831 |
|   |      |          | WO 1993-JP1190  | W 19930825 |

OTHER SOURCE(S): MARPAT 121:108814

GI



AB Comps. represented by general formula (I; R1 = (un)protected hydroxy; R2 = lower alkyl; R3 = H, lower alkyl, (un)protected hydroxy, lower alkoxy, provided that the lower alkyl may be substituted by (un)protected hydroxy, amino or lower alkylamino; R4 = carbonyl which may be in the form of ester or carboxamide; A = alkylene), which are useful for the treatment of cataract, are prepared. Thus, BuLi in hexane was added dropwise with stirring to a solution of (hydroxybenzylidene)dihydrobenzothiazine derivative

(II; R = H) in THF under NaCl-ice cooling followed by adding dropwise a solution of BrCH2CO2Et in THF and the resulting mixture was stirred at room temperature overnight to give 58.1% II (R = CH2CO2Et) which was saponified

with LiOH.H2O in MeOH and THF to give, after acidification with 6N HCl, 65.2% II (R = CH2CO2H) (III). III and II (R = (CH2)3CO2H) in vitro inhibited 91.2 and 99.1%, resp., formation of lipid peroxides when rat liver microsomes were incubated with ADP, Fe2+, and ascorbic acid in 0.04 M Tris buffer containing 0.09 M KCl.

IT 156776-32-8

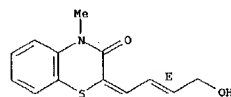
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L4 ANSWER 22 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 165333-04-6 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(4-hydroxy-2-butenylidene)-4-methyl-, (?E)- (9CI) (CA INDEX NAME)

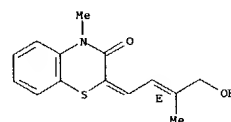
Double bond geometry as described by E or Z.



RN 165333-05-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(4-hydroxy-3-methyl-2-butenylidene)-4-methyl-, (?E)- (9CI) (CA INDEX NAME)

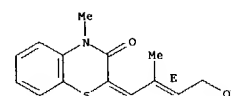
Double bond geometry as described by E or Z.



RN 165333-06-8 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(4-hydroxy-2-methyl-2-butenylidene)-4-methyl-, (?E)- (9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.



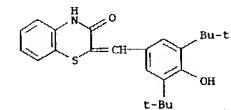
L4 ANSWER 23 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RL: RCT (Reactant); RACT (Reactant or reagent)

(alkylation of, by Et bromoacetate)

RN 156776-32-8 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]- (9CI) (CA INDEX NAME)



IT 156776-25-9P 156776-26-0P 156776-27-1P

156776-28-2P 156776-29-3P

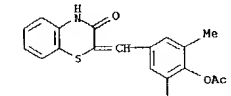
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as intermediate for benzylideneoxobenzothiazine derivative with

protein stabilization and lipid peroxide formation-inhibiting activity)

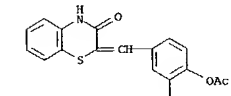
RN 156776-25-9 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(acetyloxy)-3,5-dimethylphenyl]methylene]- (9CI) (CA INDEX NAME)



RN 156776-26-0 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(acetyloxy)-3-(1,1-dimethylethyl)phenyl]methylene]- (9CI) (CA INDEX NAME)

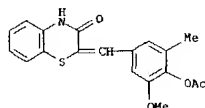


RN 156776-27-1 CAPLUS

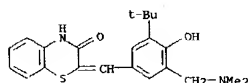
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(acetyloxy)-3-methoxy-5-methylphenyl]methylene]- (9CI) (CA INDEX NAME)

11/18/2004

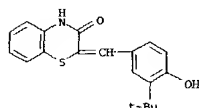
L4 ANSWER 23 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 156776-28-2 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-[(dimethylamino)methyl]-5-(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]- (9CI) (CA INDEX NAME)



RN 156776-29-3 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-[(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]- (9CI) (CA INDEX NAME)

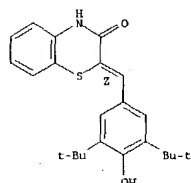


L4 ANSWER 24 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
lipoperoxides from ascorbic acid, ADP, Fe2+, and cat's liver microsome in 0.04 M tris buffer.

IT 126981-72-4P, (2)-2-(3,5-di-tert-butyl-4-hydroxybenzylidene)-3,4-dihydro-3-oxo-2H-1,4-benzothiazine  
RI: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as lipoperoxide formation inhibitor)

RN 126981-72-4 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]-, (2)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

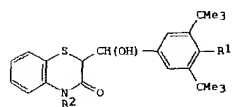
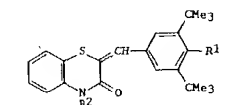


L4 ANSWER 24 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:483354 CAPLUS  
DOCUMENT NUMBER: 121:83354  
TITLE: Preparation of 1,4-benzothiazine derivatives as  
lipoperoxide formation inhibitors  
INVENTOR(S): Kawashima, Yoichi; Oota, Atsutoshi; Mibu, Hiroyuki  
PATENT ASSIGNEE(S): Santen Pharma Co Ltd, Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKKXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|-------------|------|----------|-----------------|----------|
| JP 06073033 | AZ   | 19940315 | JP 1992-231668  | 19920831 |
| JP 2840900  | B2   | 19981224 |                 |          |

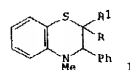
PRIORITY APPL. INFO.: MARPAT 121:83354  
OTHER SOURCE(S):  
GI



AB The title derivs. I (R1 = (protected) OH; R2 = acyl; R3: R4 = OH, lower alkoxy, amino, lower alkylamino, tetrahydropyranyloxy; A = lower alkylene) or their salts, and their intermediates II or their salts are prepared. A solution of (Me2CH)2NH in THF was treated dropwise with a solution of BuLi in n-hexane at 0-10°, stirred for 20 min, treated dropwise with a solution of 3,4-dihydro-4-[3-(N,N-dimethylamino)propyl]-3-oxo-2H-1,4-benzothiazine in THF under ice cooling, stirred for 30 min, then treated with a solution of 3,5-di-tert-butyl-4-hydroxybenzaldehyde in THF at room temperature overnight to give 38.8% erythro- and 28.9% threo-II (R1 = OH, R2 = (CH2)3NMe2) (III). A mixture of erythro-III and threo-III in CH2Cl2 was treated with MeSO2Cl under ice cooling to give 29.5% (Z)-I (R1 = OH, R2 = (CH2)3NMe2) (IV). IV at 10-6 M 98.8% inhibited the formation of

L4 ANSWER 25 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:483237 CAPLUS  
DOCUMENT NUMBER: 121:83237  
TITLE: Stereoselective synthesis of 2-acyl-3,4-dihydro-1,4-benzothiazines  
AUTHOR(S): Florio, Saverio; Epifani, Erbanar; Ronzini, Ludovico; Pava, Giovanna; Gasparri, Pelosi, Giorgio; Lucchini, Vittorio  
CORPORATE SOURCE: Cent. Studio Strutturistica Diffattometrica, Univ. Parma, Parma, Italy  
SOURCE: Tetrahedron (1994), 50(17), 5037-48  
CODEN: TETRAH; ISSN: 0040-4020  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 121:83237  
GI

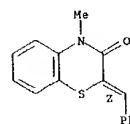


AB 2-Benzylidene-4-methyl-3-oxo-2H-1,4-benzothiazine undergoes 1,2-addition with MeMgI and allylic magnesium halides to give 2-acyl-4-methyl-3-phenyl-3,4-dihydro-2H-1,4-benzothiazines I (R = Ac, CH2=CHCH2, CH2=MeCH2, CH2=CHCHMe, R1 = H). Lithiation of I (R = Ac, R1 = H) and subsequent reaction with MeI and PhCH2Br leads to I (R = Ac, COEt, R1 = Me; R = COCHMe2, R1 = Me; R = Ac, R1 = CH2Ph). In contrast, the reaction of lithiated I (R = Ac, R1 = H) with benzaldehyde and 2,6-dichlorobenzaldehyde furnished compds. I (R = COCH(CH2Ph), COCH(CH2CH2Cl)2-2,6, R1 = H). The crystal structure of I (R = Ac, R1 = H) was determined.

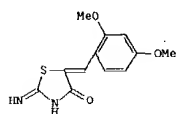
IT 55043-21-5  
RI: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with Grignard reagents)

RN 55043-21-5 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)-, (2)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

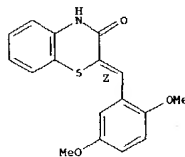


L4 ANSWER 26 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1994:483138 CAPLUS  
 DOCUMENT NUMBER: 121:83139  
 TITLE: Synthesis of lactams with potential cardiotonic activity  
 AUTHOR(S): Andreani, A.; Rambaldi, M.; Locatelli, A.; Leoni, A.; Bossa, R.; Chiericozzi, M.; Galatulus, F.; Salvatore, G.  
 CORPORATE SOURCE: Dip. Sci. Farm., Univ. Bologna, Bologna, 40126, Italy  
 SOURCE: European Journal of Medicinal Chemistry (1993), 28(10), 825-9  
 CODEN: EJMCAS; ISSN: 0223-5234  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI



AB Twelve title compds., e.g., I, were prepared and tested in spontaneously beating guinea-pig atria. I was the most potent inotropic agent.  
 IT 154617-53-5P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation and cardiotonic activity of)  
 RN 154617-53-5 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2,5-dimethoxyphenyl)methylene]-, (Z)- (9CI) (CA INDEX NAME)

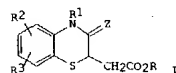
Double bond geometry as shown.



L4 ANSWER 28 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1992:551006 CAPLUS  
 DOCUMENT NUMBER: 117:151006  
 TITLE: 1,4-benzothiazine-2-acetic acid derivatives, processes  
 INVENTOR(S): R.; BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE  
 Aotsuka, Tomoji; Hosono, Hiroshi; Kurihara, Toshio; Nakamura, Yoshiyuki; Matsui, Tetsuo; Kobayashi, Fujio  
 Sapporo Breweries Ltd., Japan  
 Eur. Pat. Appl., 71 pp.  
 CODEN: EPXKXW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE       |
|-------------|------|----------|-----------------|------------|
| EP 492667   | A1   | 19920701 | EP 1991-122330  | 19911227   |
| EP 492667   | B1   | 19960417 |                 |            |
| JP 05092961 | A2   | 19930416 | JP 1991-354323  | 19911220   |
| JP 2729430  | B2   | 19980318 |                 |            |
| CA 2058398  | AA   | 19920628 | CA 1991-2058398 | 19911223   |
| CA 2058398  | C    | 20000215 |                 |            |
| AU 9190045  | A1   | 19920709 | AU 1991-90045   | 19911224   |
| AU 634109   | B2   | 19930211 |                 |            |
| US 5252571  | A    | 19931012 | US 1991-913192  | 19911224   |
| ES 2085950  | T3   | 19960616 | ES 1991-122330  | 19911227   |
|             |      |          | JP 1990-415316  | A 19901227 |
|             |      |          | JP 1991-219346  | A 19910806 |

PRIORITY APPLN. INFO.: MARPAT 117:151006  
 GI



AB Benzothiazineacetic acid derivs. I (R = H, alkyl; R1 = optionally-substituted benzyl or 5-benzothiazolylmethyl group, R2, R3 = H, halo, alkyl, alkoxy, alkylthio, CF3, CF3O; Z = O, S) and the related benzothiazolylideneacetic acid derivs. and pharmaceutically-acceptable salts were prepared. Thus, alkylation of Et 2-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-yl)acetate with 2-(bromomethyl)-5-fluorobenzothiazole in DMF afforded I (R = Et, R1 = 5-fluorobenzothiazolylmethyl, R2 = R3 = H, Z = O). The claimed compds. are aldose reductase inhibitors and are useful for the treatment of complications associated with diabetes.  
 IT 37893-72-4  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (benzylation of)  
 RN 37893-72-4 CAPLUS  
 CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

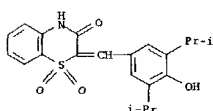
Double bond geometry as shown.

Hahte

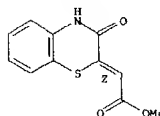
L4 ANSWER 27 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1993:463033 CAPLUS  
 DOCUMENT NUMBER: 119:63033  
 TITLE: Potent antitumor agents with low toxicity  
 INVENTOR(S): Sakuta, Masayoshi; Yoneda, Toshiki; Nishimura, Michuki; Shiratschi, Tadayoshi  
 Kanegafuchi Chemical Ind, Japan  
 Jpn. Kokai Tokkyo Koho, 26 pp.  
 CODEN: JKKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|-------------|------|----------|-----------------|----------|
| JP 05058894 | A2   | 19930309 | JP 1991-215448  | 19910827 |
|             |      |          | JP 1991-215448  | 19910827 |

PRIORITY APPLN. INFO.: MARPAT 119:63033  
 OTHER SOURCE(S):  
 AB The antitumor agents are tyrosine kinase-activating 3,5-diisopropylbenzylidene heterocyclic compds., 4-thiazolinone derivs., 3,5-diisopropyl-4-hydroxystyrene derivs., 3,5-di-tert-butyl-4-hydroxystyrene derivs., α-cyanoacrylic acid amide derivs., α-benzylidene-γ-butyrolactone or γ-butyrolactam derivs., styrene derivs., 4-alkoxystyrene derivs., 3-phenylthiomethylstyrene derivs., tribenzylamine derivs., α-cyanocinnamic acid amide derivs. and salts thereof. Antitumor pharmacol. data are included.  
 IT 108402-28-4  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (neoplasm inhibitor)  
 RN 108402-28-4 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-hydroxy-3,5-bis(1-methylethyl)phenyl]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



L4 ANSWER 28 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

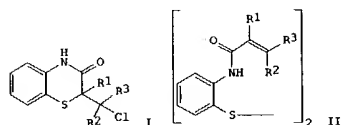


11/18/2004

L4 ANSWER 29 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1990:423934 CAPLUS  
 DOCUMENT NUMBER: 113:23934  
 TITLE: Preparation of 1,4-benzothiazin-3(4H)-one derivatives, useful as drugs, pesticides, and their intermediates  
 Muehlstaedt, Manfred; Franke, Heike; Roemisch, Ines  
 Karl-Marx-Universität Leipzig, Ger. Dem. Rep.  
 SOURCE: Ger. (East), 4 pp.  
 CODEN: GEXXAS  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE     |
|------------|------|----------|-----------------|----------|
| DD 274220  | A1   | 19891213 | DD 1988-318270  | 19880725 |
| DD 274220  | B1   | 19930121 |                 |          |

PRIORITY APPLN. INFO.: DD 1988-318270 19880725  
 OTHER SOURCE(S): CASREACT 113:23934  
 GI

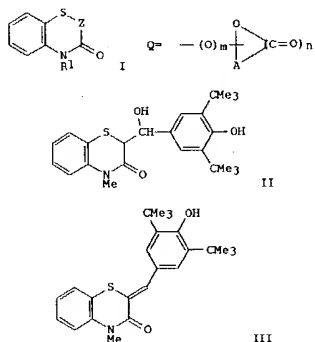


AB Three title derivs. I (R1 = Me, R2 = R3 = H; R1 = R2 = H, R3 = Ph, p-MeOC6H4) with the cited uses (no data) were prepared by reaction of bis[( $\alpha,\beta$ -unsatd. carbonylamino)phenyl] disulfides II with Cl(g) in a nonpolar solvent such as CH<sub>2</sub>Cl<sub>2</sub> at -40°, followed by warming to room temperature and 4 h addnl. stirring. Thus, 0.01 mol II (R1 = R2 = H, R3 = Ph) in 100 mL CH<sub>2</sub>Cl<sub>2</sub> was treated with a stream of Cl(g) for 25 min as above and worked up by crystallization (2 crops) to give 90.3% I (R1 = R2 = H, R3 = Ph).  
 IT 122686-63-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, by cyclization of bis[(cinnamoylamino)phenyl] disulfide derivative)  
 RN 122686-63-9 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[chloro(4-methoxyphenyl)methylene]- (9CI)  
 (CA INDEX NAME)

L4 ANSWER 30 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1990:216950 CAPLUS  
 DOCUMENT NUMBER: 112:216950  
 TITLE: Preparation of 3-oxo-1,4-benzothiazine derivatives for removal of active oxygen species and for inhibition of lipid peroxide formation  
 Morita, Takakazu; Iso, Tadashi; Mita, Shiro; Kawashima, Yoichi  
 Santen Pharmaceutical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.  
 CODEN: JKXKAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|-------------|------|----------|-----------------|----------|
| JP 01287077 | A2   | 19891117 | JP 1988-117683  | 19880514 |
| JP 07030059 | B4   | 19950405 |                 |          |

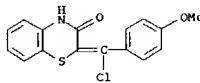
PRIORITY APPLN. INFO.: JP 1988-117683 19880514  
 OTHER SOURCE(S): MARPAT 112:216950  
 GI



AB The title compds. [I: Z = CR<sub>2</sub>CR<sub>3</sub>R<sub>4</sub>R<sub>5</sub>, C:CR<sub>6</sub>R<sub>7</sub>, CR<sub>8</sub>CR<sub>9</sub>:CR<sub>10</sub>R<sub>11</sub>; R<sub>1</sub>, R<sub>2</sub>, R<sub>8</sub>, R<sub>9</sub> = H, alkyl; R<sub>3</sub> = (un)substituted HO, halo, cyano, CO<sub>2</sub>H, alkoxy, carbonyl, alkylamino, Q; m, n = 0, 1; A = (un)substituted alkylene or alkenylene; R<sub>4</sub>-R<sub>7</sub>, R<sub>10</sub>, R<sub>11</sub> = H, alkoxy, carbonyl, CO<sub>2</sub>H, Q, (un)substituted alkyl, alkyl, or Ph; or R<sub>4</sub>R<sub>5</sub>, R<sub>6</sub>R<sub>7</sub>, R<sub>10</sub>R<sub>11</sub> forming piperidine or piperidine ring; or CR<sub>3</sub>R<sub>4</sub>R<sub>5</sub> = COR<sub>5</sub>], useful for the treatment of active oxygen

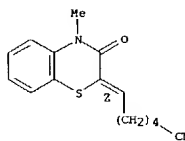
Habte

L4 ANSWER 29 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



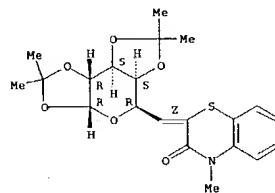
L4 ANSWER 30 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 species (e.g. O<sub>2</sub>·, H<sub>2</sub>O<sub>2</sub>, OH·, IO<sub>2</sub>·) - related inflammation and cardiovascular disease, e.g. arteriosclerosis, are prepd. Thus, treatment of 3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazine with (iso-Pr)<sub>2</sub>NH in THF at -70° followed by 3,5-di-tert-butyl-4-hydroxybenzaldehyde and warming the mixt. to room temp. and stirring 2 h at the room temp. gave threo- and erythro-benzothiazine deriv. (II). II and a (Z)-benzothiazine deriv. (III) inhibited the formation of lipid peroxides from ascorbic acid, ADP, Fe<sub>2</sub>, and rats' liver microsomes in 0.04 M tris buffer with IC<sub>50</sub> of 0.32 and 0.22  $\mu$ M, resp.  
 IT 126962-19-4  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (hydrolysis of)  
 RN 126962-19-4 CAPLUS  
 CN Hexanenitrile, 6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 126961-79-3P 126961-80-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 126961-79-3 CAPLUS  
 CN  $\alpha$ -D-Galactopyranose, 6-deoxy-6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-1,2,3,4-bis-O-(1-methylethylidene)-, (6Z)- (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry as shown.

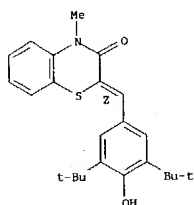


RN 126961-80-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3,5-bis(1,1-dimethylethyl)-4-

11/18/2004

L4 ANSWER 30 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
hydroxyphenyl)methylene]-4-methyl-, (2)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



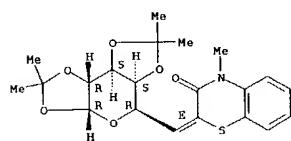
IT 126961-97-5P 126961-98-6P 126961-99-7P  
126962-00-3P 126962-03-6P 126962-04-7P  
126962-05-9P 126962-07-0P 126962-08-1P  
126962-09-2P 126962-10-5P 126962-11-6P  
126962-12-7P 126981-72-4P

RI: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, for removal of active oxygen species and inhibition of  
lipid peroxide formation)

RN 126961-97-5 CAPLUS

CN  $\alpha$ -D-Galactopyranose, 6-deoxy-6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-1,2:3,4-bis-O-(1-methylethylidene)-, (6E)- (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry as shown.

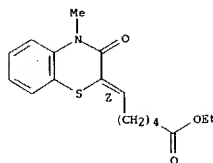


RN 126961-98-6 CAPLUS

CN Hexanoic acid, 6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl ester, (2)- (9CI) (CA INDEX NAME)

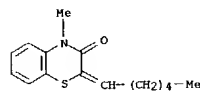
Double bond geometry as shown.

L4 ANSWER 30 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



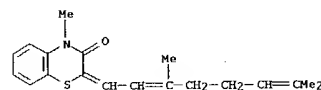
RN 126961-99-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-hexylidene-4-methyl-, (9CI) (CA INDEX NAME)



RN 126962-00-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,7-dimethyl-2,6-octadienylidene)-4-methyl]- (9CI) (CA INDEX NAME)



RN 126962-03-6 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[(methylsulfonyl)oxy]pentylidene]-, (2)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

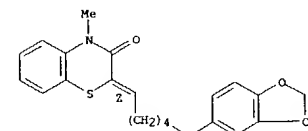
L4 ANSWER 30 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 126962-07-0 CAPLUS

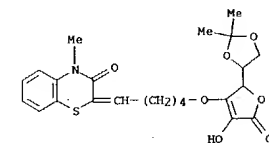
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1,3-benzodioxol-5-yl)oxy]pentylidene]-4-methyl-, (2)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 126962-08-1 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2,2-dimethyl-1,3-dioxolan-4-yl)-2,5-dihydro-4-hydroxy-5-oxo-3-furanyl]oxy]pentylidene]-4-methyl-, (9CI) (CA INDEX NAME)



RN 126962-06-9 CAPLUS

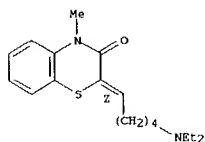
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[5-(diethylamino)pentylidene]-4-methyl-, (2Z)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 126962-05-8

CMF C18 H26 N2 O 5

Double bond geometry as shown.



CM 2

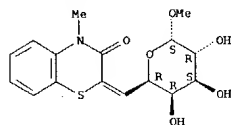
CRN 144-62-7

CMF C2 H2 O4

Habte

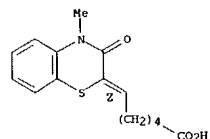
11/18/2004

L4 ANSWER 30 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

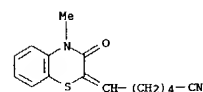


RN 126962-10-5 CAPLUS  
 CN Hexanoic acid, 6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, (2Z)- (9CI) (CA INDEX NAME)

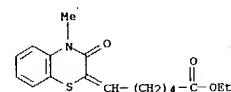
Double bond geometry as shown.



RN 126962-11-6 CAPLUS  
 CN Hexanenitrile, 6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)- (9CI) (CA INDEX NAME)



RN 126962-12-7 CAPLUS  
 CN Hexanenitrile, 6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 31 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1989:534067 CAPLUS

DOCUMENT NUMBER: 111:134067

TITLE: A further synthetic pathway to 1,4-benzothiazin-3(4H)-ones: chlorinolysis of disulfides derived from α,β-unsaturated carboxylic acid anilides

AUTHOR(S): Muehlstaedt, Manfred; Franke, Heike

CORPORATE SOURCE: Sek. Chem., Karl-Marx-Univ., Leipzig, DDR-7010, Ger. Dem. Rep.

SOURCE: Zeitschrift fuer Chemie (1989), 29(4), 135-6

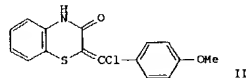
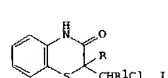
CODEN: ZECEAL; ISSN: 0044-2402

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 111:134067

GI



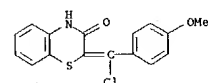
AB Treatment of 2-R1CH:CRCONHC6H4S2CGH4NHCOCR:CHR1-2 (R = Me, R1 = H; R = H, R1 = Ph, 4-MeOC6H4) with Cl gave the thiazinones I (R = Me, R1 = H; R = H, R1 = Ph) and II in 76-90% yield.

IT 122686-83-99

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, by chlorination of acrylaminothiophenyl disulfide)

RN 122686-63-9 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[chloro(4-methoxyphenyl)methylene]- (9CI)  
 (CA INDEX NAME)

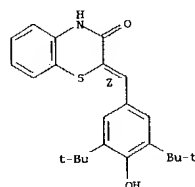


L4 ANSWER 30 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 126981-72-4 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L4 ANSWER 32 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1989:95053 CAPLUS

DOCUMENT NUMBER: 110:95053

TITLE: A novel synthetic route to phenyl-substituted pyridines. Synthesis of [1]benzopyrano[4,3-b]pyridines, [1]benzothiopyrano[4,3-b]pyridines and pyrido[3,2-b][1,4]benzothiazines (1-azapheothiazines) [Erratum to document cited in CA109(17):149389k]

AUTHOR(S): Tyndall, D. V.; Al Nakib, T.; Meegan, M. J.

CORPORATE SOURCE: Dep. Pharm. Chem., Trinity Coll. Dublin, Dublin, Ire.

SOURCE: Tetrahedron Letters (1988), 29(42), 5330

CODEN: TETLEA; ISSN: 0040-4039

DOCUMENT TYPE: Journal

LANGUAGE: English

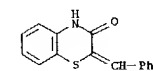
AB A text error has been corrected The error was not reflected in the abstract or the index entries.

IT 24545-07-1

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (cyclocondensation reaction of, with malononitrile (Erratum))

RN 24545-07-1 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)





L4 ANSWER 33 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1989:57296 CAPLUS

DOCUMENT NUMBER: 110:57296

TITLE:

INVENTOR(S): Preparation of hydroxystyrene derivatives as pharmaceuticals  
Shiraishi, Tadayoshi; Kameyama, Keiji; Domoto, Takeshi; Imai, Naohiro; Shimada, Yoshio; Ariki, Yutaka; Hosoe, Kazunori; Kawatsu, Masaji; Katsumi, Ikuo; et al.

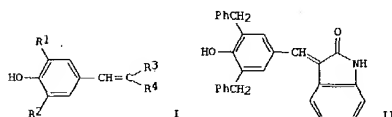
PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan  
SOURCE: PCT Int. Appl., 60 pp.

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.                            | KIND | DATE     | APPLICATION NO. | DATE     |
|---------------------------------------|------|----------|-----------------|----------|
| WO 8807035                            | A1   | 19880922 | WO 1988-JP254   | 19880310 |
| W: JP, US                             |      |          |                 |          |
| R4: BE, CH, DE, FR, GB, IT, NL, SE    |      |          |                 |          |
| EP 304493                             | A1   | 19890301 | EP 1988-902540  | 19880310 |
| EP 304493                             | B1   | 19920902 |                 |          |
| R: BE, CH, DE, FR, GB, IT, LI, NL, SE |      |          |                 |          |
| JP 2539504                            | B2   | 19961002 | JP 1988-502469  | 19880310 |
| CA 1315783                            | A1   | 19930406 | CA 1988-568136  | 19880530 |
| US 4971996                            | A    | 19901120 | US 1988-283992  | 19881110 |
| US 5089516                            | A    | 19920218 | US 1990-584683  | 19900919 |
| US 5057538                            | A    | 19911015 | US 1990-587147  | 19900924 |
| US 5202341                            | A    | 19930413 | US 1991-735581  | 19910725 |
| PRIORITY APPLN. INFO.:                |      |          | JP 1987-55965   | 19870311 |
|                                       |      |          | JP 1987-55966   | 19870311 |
|                                       |      |          | JP 1987-57256   | 19870312 |
|                                       |      |          | WO 1988-JP254   | 19880310 |
|                                       |      |          | US 1988-283992  | 19881110 |
|                                       |      |          | US 1990-584683  | 19900919 |

OTHER SOURCE(S): MARPAT 110:57296

GI



AB The title compds. [I: R1 = OH, alkoxy, PhCH2O; R2 = PhCH2, etc.; or R1, R2 = Ph, PhCH2, PhCH2CH2, C1-3 alkyl; R3 = cyano; R4 = carbamoyl (R1, R2 = alkyl); R3R4 = 5- or 6-membered cyclic amide], useful as pharmaceuticals, are prepared 3,5-Dibenzyl-4-hydroxybenzaldehyde and

L4 ANSWER 34 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1989:38945 CAPLUS

DOCUMENT NUMBER: 110:38945

TITLE:

AUTHOR(S): A new synthesis of pyrido[3,2-b][1,4]benzothiazines  
McCarthy, Eileen T.; Tyndall, D. Vivian; Meegan, Mary J.

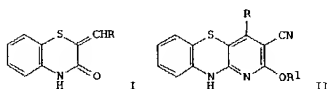
CORPORATE SOURCE: Dep. Pharm. Chem., Trinity Coll. Dublin, Dublin, Ire.  
SOURCE: Journal of Chemical Research, Synopses (1988), (5), 145

CODEN: JRPSDC; ISSN: 0308-2342

DOCUMENT TYPE: English

LANGUAGE: CASREACT 110:38945

GI



AB Cyclization of benzylidenbenzothiazines I (e.g., R = C6H4Cl-p, C6H4OMe-p, 1-naphthyl, C6H4Ph-p) with NCCH2CN in MeOH containing NaOH gave the

title compds. II (R1 = Me). In EtOH containing NaOH, I and NCCH2CN gave II (R1 = Et). A mechanism is proposed.

IT 24545-07-1P 54874-84-9P 54874-85-0P

95476-30-5P 95476-37-2P 101884-21-3P

118265-38-6P 118265-39-7P 118265-40-0P

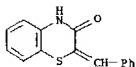
118265-41-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization of, with malononitrile, pyridobenzothiazine from)

RN 24545-07-1 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)



RN 54874-84-9 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-bromophenyl)methylene]- (9CI) (CA INDEX NAME)

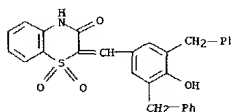
L4 ANSWER 33 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

oxindole were dissolved in C6H6 and refluxed 5 h in the presence of piperidine and AcOH to give 299 (indolinylidenemethyl)phenol II. II showed 78% inhibition (at 10 μM) of guinea pig 5-lipoxygenase and 74% inhibition (at 1 μM) of tyrosine kinase incubated with human cancer-cell stock A-431 as a proliferative acceptor. II had an acute toxicity LD50 of >500 mg/kg.

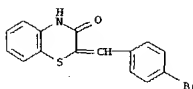
IT 118562-99-5P  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

RN 118562-99-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-hydroxy-3,5-bis(phenylmethyl)phenyl]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

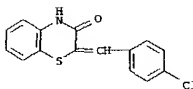


L4 ANSWER 34 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



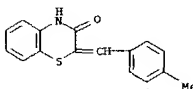
RN 54874-85-0 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]- (9CI) (CA INDEX NAME)



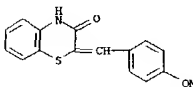
RN 95476-30-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methylphenyl)methylene]- (9CI) (CA INDEX NAME)



RN 95476-37-2 CAPLUS

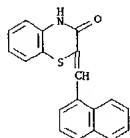
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)



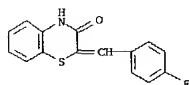
RN 101884-21-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1-naphthalenylmethylene)- (9CI) (CA INDEX NAME)

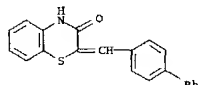
L4 ANSWER 34 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



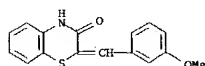
RN 118265-38-6 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-fluorophenyl)methylene]- (9CI) (CA INDEX NAME)



RN 118265-39-7 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1,1'-biphenyl)-4-ylmethylene]- (9CI) (CA INDEX NAME)



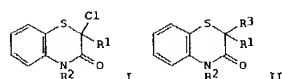
RN 118265-40-0 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)



RN 118265-41-1 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-ethoxyphenyl)methylene]- (9CI) (CA INDEX NAME)

L4 ANSWER 35 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1989:8144 CAPLUS  
DOCUMENT NUMBER: 110:8144  
TITLE: A novel, convenient synthesis of 2-aryl-3-oxo-3,4-dihydro-2H-1,4-benzothiazines  
AUTHOR(S): Fujita, Masanobu; Ota, Atsutoshi; Ito, Susumu; Yamamoto, Koji; Kawashima, Yoichi  
CORPORATE SOURCE: Res. Lab., Santen Pharm. Co., Ltd., Osaka, Japan  
SOURCE: Synthesis (1988), (8), 599-604  
CODEN: SYNTBF; ISSN: 0039-7891  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 110:8144  
GI

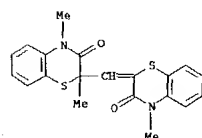


AB Chlorodihydrobenzothiazinones I [R1 = H, Me, CHMe2; R2 = H, Me, (CH2)3Me2, CH2CO2H] were treated with alkoxybenzenes, phenols, C6H6, and PhCl and AlCl3 to give arylated products II [R3 = anisyl, (MeO)2C6H3, Ph, ClC6H4, HOC6H4, HO(MeO)C6H3, HO(O2N)C6H3].

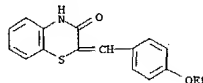
IT 117838-98-9P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 117838-98-9 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-2,4-dimethyl- (9CI) (CA INDEX NAME)

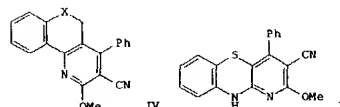
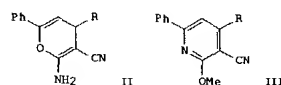


L4 ANSWER 34 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L4 ANSWER 36 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1988:549389 CAPLUS  
DOCUMENT NUMBER: 109:149389  
TITLE: A novel synthetic route to phenyl-substituted pyridines. Synthesis of [1]benzopyrano[4,3-b]pyridines, [1]benzothioopyrano[4,3-b]pyridines and pyrido[3,2-b][1,4]benzothiazines (1-azapheothiazines)  
AUTHOR(S): Tyndall, D. V.; Nakib, T. A.; Meegan, M. J.  
CORPORATE SOURCE: Dep. Pharm. Chem., Trinity Coll. Dublin, Dublin, Ire.  
SOURCE: Tetrahedron Letters (1988), 29(22), 2703-6  
CODEN: TETLEA; ISSN: 0040-4039  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 109:149389  
GI

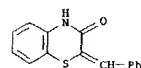


AB Reaction of PhCOCH:CHR (I: R = Ph, CH = CHPh, 1-naphthyl) with CH2(CN)2 in the presence of piperidine gave pyranecarbonitriles II, whereas the reaction of I with CH2(CN)2 in the presence of NaOH in MeOH gave pyridinecarbonitriles III. This reaction was applied to a general synthesis of title compds. IV (X = O, S) and V from  $\alpha,\beta$ -unsatd. ketones and CH2(CN)2.

IT 24545-07-1

RL: RCT (Reactant); RACT (Reactant or reagent) (cyclocondensation reaction of, with malononitrile)

RN 24545-07-1 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)

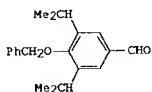
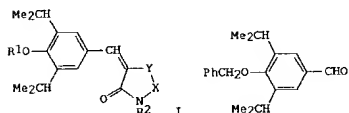
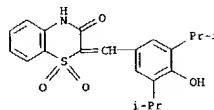


L4 ANSWER 37 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1987:213918 CAPLUS  
 DOCUMENT NUMBER: 106:213918  
 TITLE: Diisopropylbenzylidene-substituted heterocycles  
 INVENTOR(S): Imai, Naohiro; Shiraishi, Tadayoshi; Katsumi, Ikuo; Yamashita, Katsuji; Arikai, Yutaka; Yamashita, Toshiaki  
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|-------------|------|----------|-----------------|----------|
| JP 62029570 | A2   | 19870207 | JP 1985-167999  | 19850729 |
| JP 05074587 | B4   | 19931018 |                 |          |

PRIORITY APPLN. INFO.: JP 1985-167999 19850729  
 GI

L4 ANSWER 37 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



AB The title compds. I [R1 = H, PhCH2; R2 = H, R3CO (R3 = H, C1-3 alkyl), Ph; X = CO, CS, C=NH, CHR4 (R4 = H, C1-3 alkyl), NPh; Y = CH2, CH2SO2, CO, C(O)NH, NR5 (R5 = H, C1-3 alkyl), NHC(O), O, S; XY = CR6:N (R6 = H, C1-3 alkyl, morpholino, Ph), N:CR6, o-phenylene, o-C6H4SO2], useful as anti-allergics and tyrosine kinase inhibitors, are prepared. A mixture of 3,5-(Me2CH)2C6H3CHO, hydantoin, ethanalamine, EtOH, and H2O was refluxed to give I (R1 = R2 = H, X = CO, Y = NH) which at 100 µM showed 100% control of free slow-reacting substances of anaphylaxis or their biosynthesis in guinea pigs.

IT 108402-28-4P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as anti-allergic agent and tyrosine kinase inhibitor)

RN 108402-28-4 CAPLUS

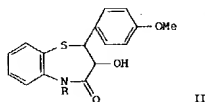
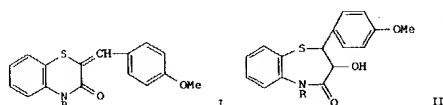
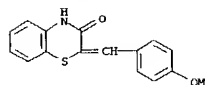
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-hydroxy-3,5-bis(1-methylethyl)phenyl]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

L4 ANSWER 38 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1987:138459 CAPLUS  
 DOCUMENT NUMBER: 106:138459  
 TITLE: Benzothiazinones  
 INVENTOR(S): Otsuka, Yozo; Naito, Kenji; Morita, Tadashi  
 PATENT ASSIGNEE(S): Tobishi Pharmaceutical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|-------------|------|----------|-----------------|----------|
| JP 61229874 | A2   | 19861014 | JP 1985-69106   | 19850403 |
| JP 05033705 | B4   | 19930520 |                 |          |

PRIORITY APPLN. INFO.: JP 1985-69106 19850403  
 OTHER SOURCE(S): CASREACT 106:138459  
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L4 ANSWER 38 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



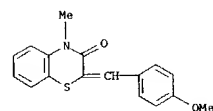
AB Title compds. I [R = H, lower alkyl, 2-(dimethylamino)ethyl], useful as intermediates for the vasodilator diltiazem, were prepared by treating cis-1-benzothiazepinones II with organic sulfonyl chlorides. Thus, treating 6.04 g 1-cis-II (R = H) with 5.7 g p-MeC6H4SO2Cl in pyridine gave 3.75 g I (R = H).

IT 87833-81-6P 95476-37-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as intermediate for vasodilator diltiazem)

RN 87833-81-6 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)



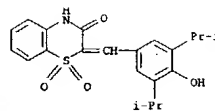
RN 95476-37-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)

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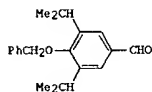
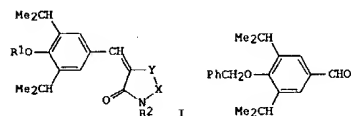
11/18/2004

TITLE: Diisopropylbenzylidene-substituted heterocycles  
 INVENTOR(S): Imai, Naohiro; Shikatahshi, Tadayoshi; Katsumi, Ikuo;  
 PATENT ASSIGNEE(S): Yamashita, Katsuji; Aiki, Yutaka; Yamashita, Toshiaki  
 SOURCE: Kanegafuchi Chemical Industry Co., Ltd., Japan  
 Jpn. Kokai Tokkyo Koho, 16 pp.  
 CODEN: JKKKAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:



| PATENT NO.             | KIND | DATE           | APPLICATION NO. | DATE     |
|------------------------|------|----------------|-----------------|----------|
| JP 62029570            | A2   | 19870207       | JP 1985-167999  | 19850729 |
| JP 05074587            | B4   | 19931018       |                 |          |
| PRIORITY APPLN. INFO.: |      | JP 1985-167999 | 19850729        |          |

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AB The title compds. I [R1 = H, PhCH2; R2 = H, R3CO (R3 = H, Cl-3 alkyl), Ph; X = CO, CS, C=NH, CHR4 (R4 = H, Cl-3 alkyl), NPh; Y = CH2, CH2SO2, CO, C(O)NH, NR5 (R5 = H, Cl-3 alkyl), NHC(O), O, S; XY = CR6N (R6 = H, Cl-3 alkyl, morpholino, Ph), N=CR6, o-phenylene, o-C6H4SO2], useful as antiallergics and tyrosine kinase inhibitors, are prepared. A mixture of 3,5-(Me2CH)2C6H3CHO, hydantoin, ethanolamine, EtOH, and H2O was refluxed to give I (R1 = R2 = H, X = CO, Y = NH) which at 100 µM showed 100% control of free slow-reacting substances of anaphylaxis or their biosynthesis in guinea pigs.

IT 108402-28-4P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as antiallergic agent and tyrosine kinase inhibitor)

RN 108402-28-4 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[[4-hydroxy-3,5-bis(1-methylethyl)phenyl]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

L4 ANSWER 38 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

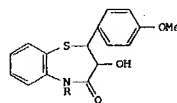
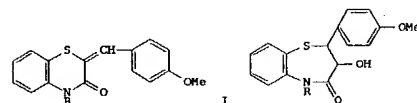
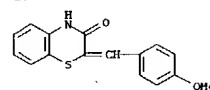
ACCESSION NUMBER: 1987:138459 CAPLUS  
 DOCUMENT NUMBER: 106:138459  
 TITLE: Benzothiazinones  
 INVENTOR(S): Otsuka, Yozoro; Naito, Kenji; Morita, Tadashi  
 PATENT ASSIGNEE(S): Tobishi Pharmaceutical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.  
 CODEN: JKKKAF

DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.             | KIND | DATE                | APPLICATION NO. | DATE     |
|------------------------|------|---------------------|-----------------|----------|
| JP 61229874            | A2   | 19861014            | JP 1985-69106   | 19850403 |
| JP 05033705            | B4   | 19930520            |                 |          |
| PRIORITY APPLN. INFO.: |      | JP 1985-69106       | 19850403        |          |
| OTHER SOURCE(S):       |      | CASREACT 106:138459 |                 |          |

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L4 ANSWER 38 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



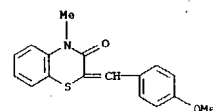
AB Title compds. I [R = H, lower alkyl, 2-(dimethylamino)ethyl], useful as intermediates for the vasodilator diltiazem, were prepared by treating cis-1-benzothiazepinones II with organic sulfonyl chlorides. Thus, treating 6.04 g 1-cis-II (R = H) with 5.7 g p-MeC6H4SO2Cl in pyridine gave 3.75 g I (R = H).

IT 87833-81-6P 95476-37-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as intermediate for vasodilator diltiazem)

RN 87833-81-6 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[[4-methoxyphenyl]methylene]-4-methyl-(9CI) (CA INDEX NAME)



RN 95476-37-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[[4-methoxyphenyl]methylene]- (9CI) (CA INDEX NAME)

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11/18/2004

L4 ANSWER 39 OF 90 CAPLUS COPYRIGHT 2004 ACS ON STN

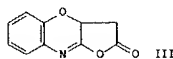
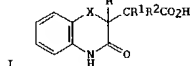
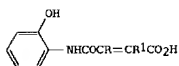
ACCESSION NUMBER: 1987:102191 CAPLUS

DOCUMENT NUMBER: 106:102191

TITLE: The synthesis of (3-oxo-3,4-dihydro-2H-1,4-benzothiazin-2-yl)acetic acid and (3-oxo-3,4-dihydro-2H-1,4-benzoxazin-2-yl)acetic acid derivatives  
 Teitel, Tsutomu  
 Div. Plant Ind., CSIRO, Canberra, 2601, Australia  
 Australian Journal of Chemistry (1986), 39(3), 503-10  
 CODEN: AJCHAS; ISSN: 0004-9425

AUTHOR(S):  
 CORPORATE SOURCE:  
 SOURCE:  
 DOCUMENT TYPE:  
 LANGUAGE:  
 OTHER SOURCE(S):  
 GI

CASREACT 106:102191



AB Reaction of o-aminophenol with various maleic anhydrides gave first 2-hydroxymaleic anhydrides I (R, R1 = e.g. H, Cl), which were then converted into the benzothiazines II (X = O; R1 = H; RR2 = bond) under mild basic conditions; similarly the reaction of o-aminophenol with the maleic anhydrides gave the benzothiazines II in one step. The facile cycloaddn. and esterification of 2-hydroxymaleic acids to form the benzothiazines observed in this work is discussed in terms of the

formation of the isomaleimide type intermediate III. None of the prepared compds. showed significant activity on NADP-malic enzyme in the C4 photosynthetic pathway.

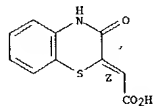
IT 106660-09-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and esterification of)

RN 106660-05-3 CAPLUS

CN Acetic acid, chloro(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L4 ANSWER 39 OF 90 CAPLUS COPYRIGHT 2004 ACS ON STN (Continued)

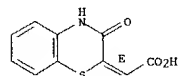


IT 106660-01-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation, isomerization and methylation of)

RN 106660-01-9 CAPLUS

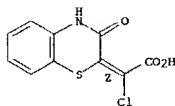
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, hydrochloride, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



● HCl

L4 ANSWER 39 OF 90 CAPLUS COPYRIGHT 2004 ACS ON STN (Continued)



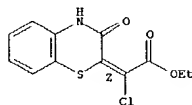
IT 106660-06-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and ethylation of)

RN 106660-06-4 CAPLUS

CN Acetic acid, chloro(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



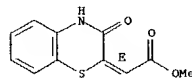
IT 37893-32-6P 106660-02-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 37893-32-6 CAPLUS

CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 106660-02-0 CAPLUS

CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L4 ANSWER 40 OF 90 CAPLUS COPYRIGHT 2004 ACS ON STN

ACCESSION NUMBER: 1986:571588 CAPLUS

DOCUMENT NUMBER: 105:171588

TITLE: Rearrangements and complex eliminations with 1,5-benzothiazepin-4-ones

AUTHOR(S): Kaupp, Gerdr; Gruendken, E.; Matthies, D.

CORPORATE SOURCE: Fachbereich Chem. - Org. Chem. I, Univ. Oldenburg,

Oldenburg, D-2900, Fed. Rep. Ger.

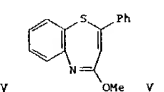
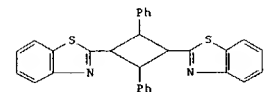
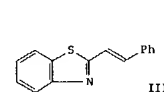
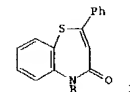
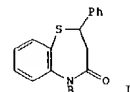
SOURCE: Chemische Berichte (1986), 119(10), 3109-20

CODEN: CHBEAH; ISSN: 0009-2940

DOCUMENT TYPE: Journal

OTHER SOURCE(S): CASREACT 105:171588

GI



AB New or rarely documented rearrangements and complex eliminations occur in the partially proton catalyzed pyrolysis of the benzothiazepinones I (R = H, Me, Ac) and II (R = H, Me, Ac). The reactions are classified and mechanistically discussed. The products and byproducts are spectrally characterized and their configurations are assigned based on their photolysis. III photodimerizes in solution and in the crystalline state to

give IV. V is remarkably insensitive to hydrolysis.

IT 55043-20-4P 55043-21-5P 104505-72-8P

104505-73-9P

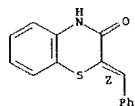
RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 55043-20-4 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)-, (Z)- (9CI) (CA INDEX NAME)

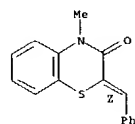
Double bond geometry as shown.

L4 ANSWER 40 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



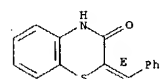
RN 55043-21-5 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)-, (Z)- (9CI)  
 (CA INDEX NAME)

Double bond geometry as shown.



RN 104505-72-8 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)-, (E)- (9CI) (CA INDEX NAME)

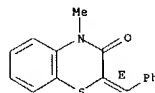
Double bond geometry as shown.



RN 104505-73-9 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)-, (E)- (9CI)  
 (CA INDEX NAME)

Double bond geometry as shown.

L4 ANSWER 40 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

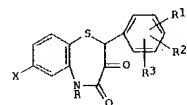


L4 ANSWER 41 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1985:578293 CAPLUS  
 DOCUMENT NUMBER: 103:178283  
 TITLE: 1,5-Benzothiazepine derivatives  
 PATENT ASSIGNEE(S): Hamari Yakuhin Kogyo Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

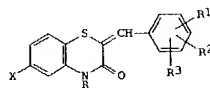
| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| JP 60072876            | A2   | 19850424 | JP 1983-181086  | 19830928 |
| PRIORITY APPLN. INFO.: |      |          | JP 1983-181086  | 19830928 |

GI

L4 ANSWER 41 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



I



II

AB Title compds. I [R = alkyl, (alkylamino)alkyl, morpholinoalkyl; R1-R3 = H, halo, OH, alkyl, alkoxy; X = halo] or their salts, useful as analgesics and antipyretics, were prepared by treating II with Me3SiX (X = halo), H2O2, and H2O. Thus, 59.6 g 4,2-Cl(MeNH)C6H3SH, prepared by N-methylation of 5-chloro-2-benzothiazolinone and subsequent hydrolysis, was treated with 34.0 g ClCH2CO2H to give 68.7 g 4-methyl-6-chloro-2H-1,4-benzothiazin-3(4H)-one, which (8.0 g) was refluxed with 5.1 g p-anisaldehyde and NaOMe gave 4.2 g II (R = Me; R1 = 4-OMe; R2 = R3 = H; X = Cl), which (1 g) was mixed with Me3SiCl and then treated with aqueous H2O2 to give 650 mg I. The title compds. were 0.2-3 times as effective as pentazocine.

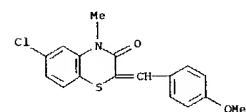
IT 95476-11-2P

RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and ring expansion of, benzothiazepinediones from)

RN 95476-11-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 6-chloro-2-[(4-methoxyphenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)

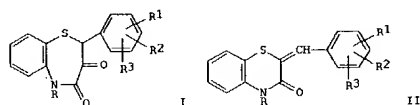


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11/18/2004

L4 ANSWER 42 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1985:542032 CAPLUS  
 DOCUMENT NUMBER: 103:142032  
 TITLE: 1,5-Benzothiazepine derivatives  
 PATENT ASSIGNER(S): Hamari Yakuhin Kogyo Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKOXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.            | KIND | DATE     | APPLICATION NO. | DATE     |
|-----------------------|------|----------|-----------------|----------|
| JP 60072875           | A2   | 19850424 | JP 1983-181085  | 19830928 |
| PRIORITY APPL. INFO.: |      |          | JP 1983-181085  | 19830928 |
| GI                    |      |          |                 |          |

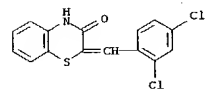


AB Title compds. I (R = alkyl, (alkylamino)alkyl, morpholinoalkyl; R1-R3 = H, halo, OH, alkyl, alkoxy) or their salts, useful as analgesic antipyretics, were prepared by treating II with MeSiX (X = halo), H2O2, and H2O. Thus, treating 20 g 2H-1,4-benzothiazin-3(4H)-one with 33.4 g p-PhCH2OC6H4CHO and NaOMe gave 21.5 g II (R-R2 = H; R3 = OCH2Ph-4), which (4g) was treated with 3.1 g N-(2-chloroethyl)morpholine to give 1.3 g II (R = 2-morpholinoethyl, R1 = R2 = H, R3 = 4-OH), which (1 g) was mixed with Me3SiCl and treated with aqueous H2O2 to give the corresponding 0.4 g I.HCl. The analgesic activity of I was comparable to that of pentazocine.

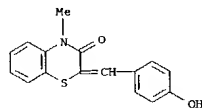
IT 54874-55-4P 95476-30-5P 95476-31-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and alkylation of)

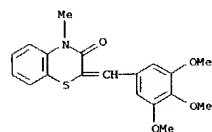
RN 54874-55-4 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2,4-dichlorophenyl)methylene]- (9CI) (CA INDEX NAME)



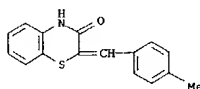
L4 ANSWER 42 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



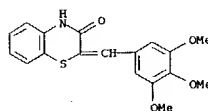
RN 98448-66-9 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[(3,4,5-trimethoxyphenyl)methylene]- (9CI) (CA INDEX NAME)



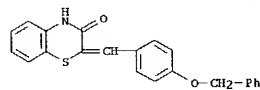
L4 ANSWER 42 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 RN 95476-30-5 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methylphenyl)methylene]- (9CI) (CA INDEX NAME)



RN 95476-31-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,4,5-trimethoxyphenyl)methylene]- (9CI) (CA INDEX NAME)



RN 98448-63-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(phenylmethoxy)phenyl)methylene]- (9CI) (CA INDEX NAME)

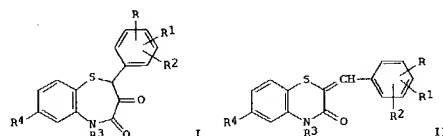


IT 98448-65-0P 98448-66-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and ring expansion of, benzothiazepinediones from)

RN 98448-65-8 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-hydroxyphenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 43 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1985:132086 CAPLUS  
 DOCUMENT NUMBER: 102:132086  
 TITLE: 1,5-Benzothiazepine derivatives  
 INVENTOR(S): Maki, Yoshifumi; Sako, Magoichi; Mitsumori, Naomichi; Maeda, Sadayuki; Takaya, Masahiro  
 PATENT ASSIGNER(S): Hamari Chemicals, Ltd., Japan  
 SOURCE: U.S., 7 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.            | KIND   | DATE     | APPLICATION NO.     | DATE     |
|-----------------------|--------|----------|---------------------|----------|
| US 4490292            | A      | 19841225 | US 1983-540000      | 19831007 |
| EP 137083             | A1     | 19850417 | EP 1983-306147      | 19831011 |
| EP 137083             | B1     | 19870624 |                     |          |
| CA 1225989            | GB, LI | 19870825 | CA 1983-438685      | 19831011 |
| PRIORITY APPL. INFO.: |        |          | US 1983-540000      | 19831007 |
| OTHER SOURCE(S):      |        |          | CASREACT 102:132086 |          |
| GI                    |        |          |                     |          |



AB 1,5-Benzothiazepine-3,4(5H)-diones I (R-R2 = H, halogen, alkyl, alkoxy, OH; R3 = CHCH:CH2, alkyl, alkoxyalkyl, hydroxyalkyl, haloalkyl, alkylaminoalkyl, morpholinoalkyl, R4 = H, halogen) were prepared by ring expansion of 2H-1,4-benzothiazin-3(4H)-ones II with trimethylhalosilane, H2O2, and water. Thus, 2H-1,4-benzothiazin-3(4H)-one was condensed with 2,4-Cl2C6H3CHO to give II (R = 2-Cl, R1 = 4-Cl, R2-R4 = H) which was alkylated with Me2NCH2CH2Cl to give II-HCl (R = 2-Cl, R1 = 4-Cl, R2 = R4 = H, R3 = Me2NCH2CH2). The latter compound (1 g) in 10 mL CHCl3 at 0° was treated with 2 mL Me3SiCl and 0.29 g 30% H2O2, stirred for 30 min, 1 mL water added, and the whole stirred 1 h at room temperature to give 1 g I.

(R = 2-Cl, R1 = 4-Cl, R2 = R4 = H, R3 = Me2NCH2CH2). I (R = R2 = R4 = H, R1 = 4-MeO, R3 = Me2NCH2CH2) at 60 mg/kg i.p. in mice gave 100% antagonism of the writhing syndrome induced by i.p. injection of 10 mL/kg 0.7% HOAc-saline solution and, at 60 mg/kg i.p., decreased rectal temperature 1.1° in rats with yeast-induced pyrexia.

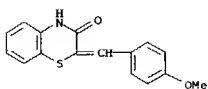
IT 95476-37-2  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (alkylation of, with (chloroethyl)morpholine)

RN 95476-37-2 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)

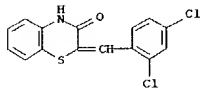
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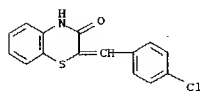
L4 ANSWER 43 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
INDEX NAME)



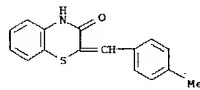
IT 54874-55-4P 54874-85-0P 95476-30-5P  
95476-31-6P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and alkylation of, with (chloroethyl)morpholine)  
RN 54874-55-4 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2,4-dichlorophenyl)methylene]- (9CI)  
(CA INDEX NAME)



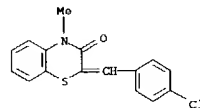
RN 54874-85-0 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]- (9CI) (CA  
INDEX NAME)



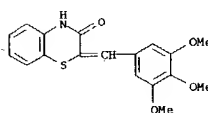
RN 95476-30-5 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methylphenyl)methylene]- (9CI) (CA  
INDEX NAME)



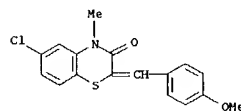
L4 ANSWER 43 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



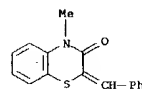
L4 ANSWER 43 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
RN 95476-31-6 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,4,5-trimethoxyphenyl)methylene]-  
(9CI) (CA INDEX NAME)



IT 95476-11-2P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and ring enlargement of, benzothiazepine from)  
RN 95476-11-2 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 6-chloro-2-[(4-methoxyphenyl)methylene]-4-  
methyl- (9CI) (CA INDEX NAME)



IT 30752-17-1 85809-67-2  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(ring enlargement of, benzothiazepine from)  
RN 30752-17-1 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA  
INDEX NAME)



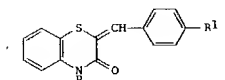
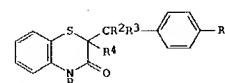
RN 85809-67-2 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]-4-methyl-  
(9CI) (CA INDEX NAME)

L4 ANSWER 44 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1985:45965 CAPLUS  
DOCUMENT NUMBER: 102:45965  
TITLE: 1,4-Benzothiazines  
PATENT ASSIGNEE(S): Hamari Yakuhin Kogyo Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKOXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

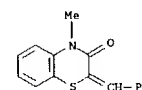
| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|-------------|------|----------|-----------------|----------|
| JP 59184170 | A2   | 19841019 | JP 1983-58457   | 19830401 |
| JP 05059113 | B4   | 19930830 | JP 1983-58457   | 19830401 |

PRIORITY APPLN. INFO.:  
GI



AB The title compds. I (R = substituted alkyl; R1 = H, halo, alkoxy; R2 = H, Cl, OH, acyloxy; R3 = H, or R2R3 = O; R4 = OH, acyloxy), useful as analgesics and antipyretics (no data) were prepared from the benzylidene derivs. II. Thus, heating a mixture of 2 g II (R = Me, R1 = H), 3.3 g Pb(OAc)4, and benzene at 60° for 3 h gave 2.0 g I (R = Me, R1 = R3 = H, R2 = R4 = AcO).

IT 30752-17-1  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(acetoxylation of)  
RN 30752-17-1 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA  
INDEX NAME)



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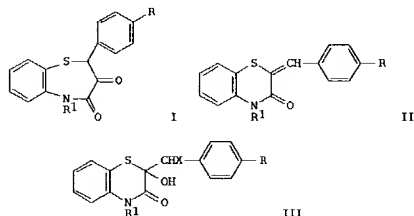
11/18/2004



L4 ANSWER 45 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1984:139162 CAPLUS  
 DOCUMENT NUMBER: 100:139162  
 TITLE: 1,5-Benzothiazepine derivatives  
 PATENT ASSIGNEE(S): Hamari Yakuhin Kogyo Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

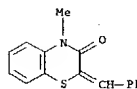
| PATENT NO.             | KIND | DATE                | APPLICATION NO. | DATE     |
|------------------------|------|---------------------|-----------------|----------|
| JP 58206577            | A2   | 19831201            | JP 1982-89339   | 19820525 |
| PRIORITY APPLN. INFO.: |      |                     | JP 1982-89339   | 19820525 |
| OTHER SOURCE(S):       |      | CASREACT 100:139162 |                 |          |

GI



AB 1,5-Benzothiazepine derivs. I [R, R1 = H, Me; Cl, Me; MeO, MeOCH2; MeO, Me2NCH2CH2 (free and HCl salt); MeO, HO; MeO, ClCH2CH2], useful as coronary vasodilators, antiarrhythmics, analgesics, and blood platelet aggregation inhibitors (no data), were prepared by, e.g., treatment of II with H2O2, H2O, and Me3SiX (X = halo) followed by ring expansion of the resulting III. Thus, 1.43 mL Me3SiCl was added to a mixture of 1 g II (R = H, R1 = Me) and 0.58 mL 30% aqueous H2O2 in THF during 15 min at -20° to -10° and the whole stirred 4 h with ice cooling and then 2 h at room temperature to give 0.96 g III (R = H, R1 = Me, X = Cl), which (1 g) was treated with 1.04 g Ag2CO3 in Me2CO 30 min with ice cooling to give 0.73 g I (R = H, R1 = Me).  
 IT 30752-17-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (chlorination-hydroxylation of)  
 RN 30752-17-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA

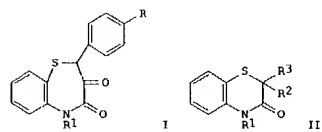
L4 ANSWER 45 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 INDEX NAME)



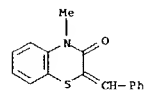
L4 ANSWER 46 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1984:85732 CAPLUS  
 DOCUMENT NUMBER: 100:85732  
 TITLE: 1,5-Benzothiazepines  
 PATENT ASSIGNEE(S): Hamari Yakuhin Kogyo Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.             | KIND | DATE               | APPLICATION NO. | DATE     |
|------------------------|------|--------------------|-----------------|----------|
| JP 58180476            | A2   | 19831021           | JP 1982-62918   | 19820414 |
| PRIORITY APPLN. INFO.: |      |                    | JP 1982-62918   | 19820414 |
| OTHER SOURCE(S):       |      | CASREACT 100:85732 |                 |          |

GI



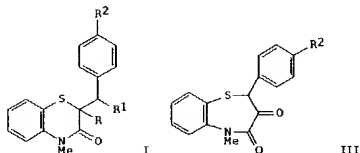
AB The title compds. I [R = H, halo, alkoxy; R1 = (substituted) alkyl, dialkylamino] were prepared by, e.g., reaction of the benzothiazine derivs. II (R2R3 = p-RC6H4CH) with H2O2 and Me3SiX (X = halo) and ring enlargement of the resulting II (R2 = OH, R3 = p-RC6H4CH). Thus, 1.43 mL Me3SiCl was added to a mixture of 1 g II (R2R3 = PhCH, R1 = Me), 0.58 mL 30% H2O2, and 10 mL THF at -0 to -10° over 15 min, the resulting mixture stirred at room temperature for 2 h, and the resulting II (R2 = H, R3 = PhCHCl) (1 g) was treated with 1.04 g Ag2CO3 with ice cooling for 30 min to give 0.73 g I (R = H, R1 = Me). I had coronary vasodilating, antiarrhythmic, analgesic and blood platelet aggregation-inhibiting activities (no data).  
 IT 30752-17-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with trimethylsilyl chloride and hydrogen peroxide)  
 RN 30752-17-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA INDEX NAME)



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11/18/2004

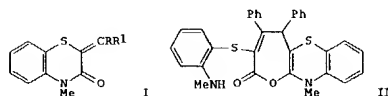
L4 ANSWER 47 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1983:594934 CAPLUS  
 DOCUMENT NUMBER: 99:194934  
 TITLE: A simple ring expansion of 1,4-benzothiazines to give 1,5-benzothiazepines  
 AUTHOR(S): Maki, Yoshifumi; Sako, Magoichi; Mitsumori, Naomichi;  
 Maeda, Sadaaki; Takaya, Masahiro  
 CORPORATE SOURCE: Gifu Coll. Pharm., Gifu, 502, Japan  
 SOURCE: Journal of the Chemical Society, Chemical Communications (1983), (8), 450-1  
 CODEN: JCCCAT; ISSN: 0022-4936  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 99:194934  
 GI



AB Addition reaction of benzothiazinones I [R1 = bond, R2 = H (II), OMe, Cl] with Me3SiOOH, generated in situ from Me3SiCl and H2O2, gave 90% I (R = OH, R1 = Cl, R2 as before), which underwent ring expansion on treatment with Ag2CO3 in THF at 0° for 30 min to give benzothiazepines III (R2 as before) in high yields. III (R2 = H) was also prepared from II by sequential oxidative addition of AcOH, hydrolysis, and ring expansion by SOCl2. The ring expansion involves an episulfonium ion intermediate.

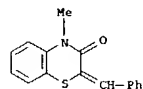
IT 87833-81-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (chlorination/oxidation of)  
 RN 87833-81-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 48 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1983:215550 CAPLUS  
 DOCUMENT NUMBER: 98:215550  
 TITLE: Metalation of 2-alkylidene-3-oxo-1,4-benzothiazines at the olefinic position and reactions with electrophiles  
 AUTHOR(S): Babudri, F.; Di Nunno, L.; Florio, S.  
 CORPORATE SOURCE: Ist. Chim. Org., Univ. Bari, Bari, I-70 126, Italy  
 SOURCE: Synthesis (1983), (3), 230-1  
 CODEN: SYNTBF; ISSN: 0039-7881  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 98:215550  
 GI



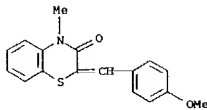
AB Lithiation of I (R = Ph, 3,4-(MeO)2C6H3, R1 = H) by LiN(CiMe2)2 at -100° gave intermediate I (R1 = Li) which reacted with electrophiles R2X (R2 = Et, PhCH2, H2C=CHCH2, X = Br; R2 = D, X = Cl; R2 = Me, X = iodo; R2X = Ac2O, PhSSPh) to give 50-92% of the corresponding I (R1 = R2). Allowing I (R = Ph, R1 = Li) to warm to room temperature gave 60%.

IT 30752-17-1 85809-71-8  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (metalation of, by lithium diisopropylamide)  
 RN 30752-17-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA INDEX NAME)

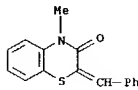


RN 85809-71-8 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,4-dimethoxyphenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)

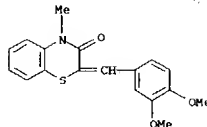
L4 ANSWER 47 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



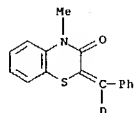
IT 30752-17-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (oxidative acetylation and chlorination/oxidation of)  
 RN 30752-17-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA INDEX NAME)



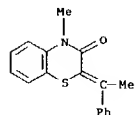
L4 ANSWER 48 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



IT 85810-72-6P 85810-73-7P 85810-74-8P  
 85810-75-9P 85810-76-0P 85810-77-1P  
 85810-78-2P 85810-79-3P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 85810-72-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene-d)- (9CI) (CA INDEX NAME)

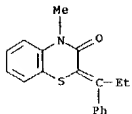


RN 85810-73-7 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(1-phenylethylidene)- (9CI) (CA INDEX NAME)

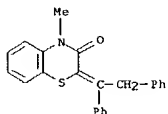


RN 85810-74-8 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(1-phenylpropylidene)- (9CI) (CA INDEX NAME)

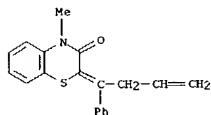
L4 ANSWER 48 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



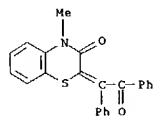
RN 85810-75-9 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1,2-diphenylethylidene)-4-methyl- (9CI)  
(CA INDEX NAME)



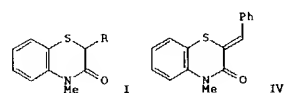
RN 85810-76-0 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(1-phenyl-3-butenylidene)- (9CI)  
(CA INDEX NAME)



RN 85810-77-1 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(oxodiphenylethylidene)- (9CI)  
(CA INDEX NAME)



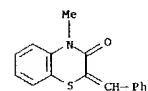
L4 ANSWER 49 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1983:215549 CAPLUS  
DOCUMENT NUMBER: 98:215549  
TITLE: Stereoselective synthesis of 2-alkylidene-3,4-dihydro-3-oxo-2H-1,4-benzothiazines  
AUTHOR(S): Babudri, F.; Di Nunno, L.; Florio, S.  
CORPORATE SOURCE: Ist. Chim. Org., Univ. Bari, Bari, 70126, Italy  
SOURCE: Tetrahedron (1982), 38(20), 3059-65  
CODEN: TETRAH; ISSN: 0040-4020  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 98:215549  
GI



AB Metalation of benzothiazine (I; R = H) (II) with  $\text{Li}(\text{C}_6\text{H}_5)_2$  followed by condensation reaction with aldehydes gave mixture of diastereomeric aldols, which on acetylation and AcOH elimination gave high yields of the title compds., stereoselectively. E.g., metalation and reaction of II with PhCHO for 30 min gave 82% of a 1:1 mixture of threo- and erythro-I [R =  $\text{CH}(\text{OH})\text{Ph}$ ], which on acetylation gave threo- and erythro-I [R =  $\text{CH}(\text{OAc})\text{Ph}$ ] (III), in 88 and 80% yield, resp. Elimination reaction of III gave 62% benzothiazine IV.

IT 30752-17-1P 85809-67-2P 85809-68-3P  
85809-69-4P 85809-70-7P 85809-71-8P  
85809-72-9P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

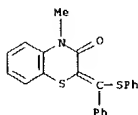
RN 30752-17-1 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA INDEX NAME)



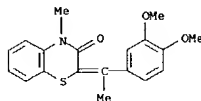
RN 85809-67-2 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 48 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

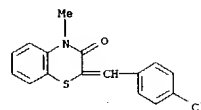
RN 85810-78-2 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[phenyl(phenylthio)methylene]- (9CI) (CA INDEX NAME)



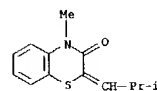
RN 85810-79-3 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[1-(3,4-dimethoxyphenyl)ethylidene]-4-methyl- (9CI) (CA INDEX NAME)



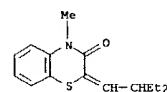
L4 ANSWER 49 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



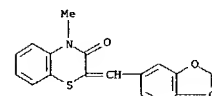
RN 85809-68-3 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(2-methylpropylidene)- (9CI)  
(CA INDEX NAME)



RN 85809-69-4 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-ethylbutylidene)-4-methyl- (9CI) (CA INDEX NAME)

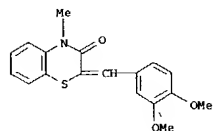


RN 85809-70-7 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1,3-benzodioxol-5-ylmethylene)-4-methyl- (9CI) (CA INDEX NAME)

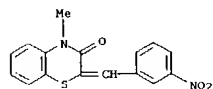


RN 85809-71-8 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,4-dimethoxyphenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 49 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

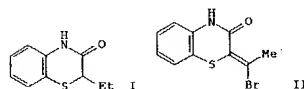


RN 85809-72-9 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[(3-nitrophenyl)methylene]-  
(9CI) (CA INDEX NAME)



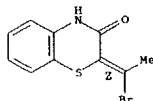
L4 ANSWER 50 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1982:616104 CAPLUS  
DOCUMENT NUMBER: 97:216104  
TITLE: Structure of the bromination product of  
2-ethyl-1,4-benzothiazin-3(4H)-one  
AUTHOR(S): Bates, Robert B.; Duguay, Laurent M.; Klenck, Robert  
E.; Kriek, George R.; Tempesta, Michael S.; Brewer,  
Arthur D.  
CORPORATE SOURCE: Dep. Chem., Univ. Arizona, Tucson, AZ, 85721, USA  
SOURCE: Journal of Heterocyclic Chemistry (1982), 19(4), 927-8  
CODEN: JHYCAD; ISSN: 0022-152X  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 97:216104  
GI



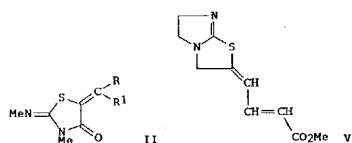
AB Ethyl-1,4-benzothiazinone I and bromine react to give (Z)-  
(bromoethylidene)-1,4-benzothiazinone II which results from a complex  
bromination-oxidation sequence. The structure II was determined by an x-ray  
crystal structure anal.  
IT 83715-98-4P  
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation and crystal structure of)  
RN 83715-98-4 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1-bromoethylidene)-, (Z)- (9CI) (CA  
INDEX NAME)

Double bond geometry as shown.



L4 ANSWER 51 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

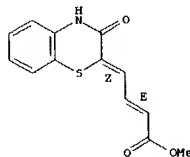
ACCESSION NUMBER: 1982:582315 CAPLUS  
DOCUMENT NUMBER: 97:192315  
TITLE: Products from dimethyl hex-2-en-1-yne-1,6-dioate and  
dimethyl penta-2,3-diene-1,5-dioate with compounds  
possessing two adjacent nucleophilic centers  
Acheson, R. Morrin; Wallis, John D.  
Dep. Biochem., Univ. Oxford, Oxford, OX1 3QU, UK  
SOURCE: Journal of the Chemical Society, Perkin Transactions  
1: Organic and Bio-Organic Chemistry (1972-1999)  
(1982), (8), 1905-14  
CODEN: JCPRB4; ISSN: 0300-922X  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
GI



AB MeO2CC.tpbond.CCH:CHCO2Me (I) was sulfurized, mainly in the 5-position,  
by thioureas and thioamides. In some cases cis as well as trans addition  
was observed, even in MeOH. E.g., I with (MeNH)2CS in MeOH at room temperature  
for 6 h gave 52% II (R = E-CH:CHCO2Me, R1 = H) (III) and 1.6% II (R = H, R1 =  
E-CH:CHCO2Me) (IV); the same reaction in dry MeCN gave a 14:86 mixture of  
III and IV. Imidazoline- and benzimidazole-2-thione reacted with I at the  
4-position to give fused thiazinones. E.g., I with imidazoline-2-thione  
in warm MeCN gave 14.0% V. 2-Aminobenzothiazole, 2-aminothiazole, and  
2-aminopyridine added to the 4-position of I via the ring N; subsequent  
cyclization gave fused pyrimidones. C6H4(NH2)2-1,2 (VI) and 2-H2NCGH4SH  
(VII) added at the 5-position, but addition at the 4-position was followed  
by further Michael addition to the 3-position. With (MeO2CCH:2C, VI and VII  
gave cyclic compds. with an exocyclic unsatd. ester group, whereas  
thioureas gave derivs. of Me 4-oxothiazin-6-ylacetate.  
IT 83443-74-7P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 83443-74-7 CAPLUS  
CN 2-Butenoic acid, 4-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-,  
methyl ester, (Z,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

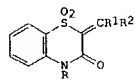
L4 ANSWER 51 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



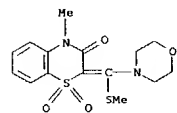
L4 ANSWER 52 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1981:121569 CAPLUS  
 DOCUMENT NUMBER: 94:121569  
 TITLE: 2-Methylene-2,3-dihydro-3-oxo-4H-1,4-benzothiazine-1,1-dioxide compounds  
 INVENTOR(S): Eiden, Fritz; Meinel, Franz; Mayer, Dieter  
 PATENT ASSIGNEE(S): Thiemann, Dr., G.m.b.H. Chem.-Pharm. Fabrik, Fed. Rep. Ger.  
 SOURCE: Ger. Offen., 12 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.            | KIND | DATE     | APPLICATION NO. | DATE     |
|-----------------------|------|----------|-----------------|----------|
| DE 2912445            | A1   | 19801009 | DE 1979-2912445 | 19790329 |
| PRIORITY APPLN. INFO: |      |          | DE 1979-2912445 | 19790329 |

GI

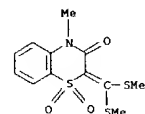


AB Antiarrhythmic (no data) methylenebenzothiazine dioxides I (R = H, alkyl; R1 = alkylthio; R2 = amino) were prepared. Thus, I (R = Me, R1 = R2 = SMe) was treated with morpholine to give 42 I (R = Me, R1 = SMe, R2 = morpholino).  
 IT 70685-34-6P 70685-35-7P 70685-36-8P  
 76952-60-8P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 70685-34-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[(methylthio)-4-morpholinylmethylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

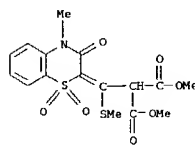


RN 70685-35-7 CAPLUS  
 CN Propanedioic acid, [(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-

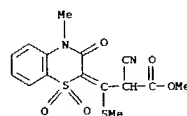
L4 ANSWER 52 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



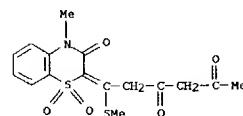
L4 ANSWER 52 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 benzothiazin-2-ylidene) (methylthio)methyl]-, dimethyl ester (9CI) (CA INDEX NAME)



RN 70685-36-8 CAPLUS  
 CN Propanoic acid, 2-cyano-3-[(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)-3-(methylthio)-, methyl ester (9CI) (CA INDEX NAME)



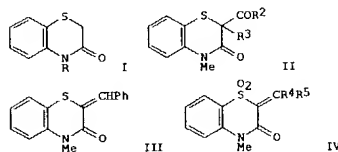
RN 76952-60-8 CAPLUS  
 CN 2,4-Hexanedione, 6-[(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)-6-(methylthio)- (9CI) (CA INDEX NAME)



IT 70685-33-5  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with amines)

RN 70685-33-5 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(bis(methylthio)methylene)-4-methyl-, 1,1-dioxide (9CI) (CA INDEX NAME)

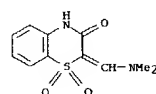
L4 ANSWER 53 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1979:439408 CAPLUS  
 DOCUMENT NUMBER: 91:39408  
 TITLE: 2,3-Dihydro-1,4-benzothiazin-3-ones  
 AUTHOR(S): Eiden, Fritz; Meinel, Franz  
 CORPORATE SOURCE: Inst. Pharm. Lebensmittelchem., Univ. Muenchen, Munich, 8000/2, Fed. Rep. Ger.  
 SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1979), 312(4), 302-12  
 CODEN: ARPMA5; ISSN: 0365-6233  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 OTHER SOURCE(S): CASREACT 91:39408  
 GI



AB Title compds I (R = H, Me) and S-oxides and S,S-dioxides of I were prepared e.g., by cyclocondensation of 2-HSC6H4NH2 with ClCH2CO2R1 (R1 = H, Et), followed by oxidation and/or methylation. I (R = Me) reacted with carboxylic esters and NaH to give II (R2 = Me, Ph, COCO2Et; R3 = H). Reaction of II (R2 = Me, R3 = H) with H2O2-HOAc gave II (R3 = OAc). I or their oxides reacted with aldehydes; e.g., I (R = Me) and BzH gave III. I dioxide (R = Me) reacted with CS2-Me2SO4 to give IV (R4 = R5 = MeS) and with DMF di-Me acetal to give IV (R4 = Me2N, R5 = H).

IT 70685-26-6P 70685-27-7P 70685-28-8P  
 70685-29-9P 70685-33-5P 70685-34-6P  
 70685-35-7P 70685-36-8P 70685-37-9P  
 70685-38-0P 70685-39-1P 70685-40-4P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 70685-26-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(dimethylamino)methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

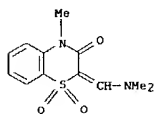


RN 70685-27-7 CAPLUS

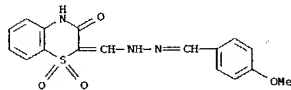
11/18/2004

Habte

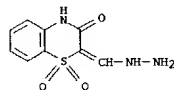
L4 ANSWER 53 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(dimethylamino)methylene]-4-methyl-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 70685-28-8 CAPLUS  
 CN Benzaldehyde, 4-methoxy-, [(3,4-dihydro-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]hydrazone (9CI) (CA INDEX NAME)

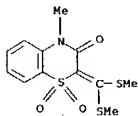


RN 70685-29-9 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(hydrazinomethylene)-, 1,1-dioxide (9CI) (CA INDEX NAME)

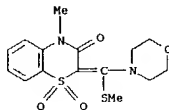


RN 70685-33-5 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[bis(methylthio)methylene]-4-methyl-, 1,1-dioxide (9CI) (CA INDEX NAME)

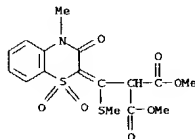
L4 ANSWER 53 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 70685-34-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[(methylthio)-4-morpholinylmethylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



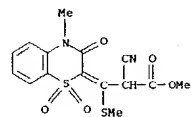
RN 70685-35-7 CAPLUS  
 CN Propanedioic acid, [(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)(methylthio)methyl]-, dimethyl ester (9CI) (CA INDEX NAME)



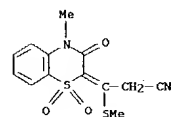
RN 70685-36-8 CAPLUS  
 CN Propanoic acid, 2-cyano-3-(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)-3-(methylthio)-, methyl ester (9CI) (CA INDEX NAME)



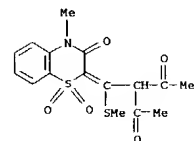
L4 ANSWER 53 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



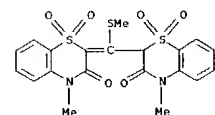
RN 70685-37-9 CAPLUS  
 CN Propanenitrile, 3-[(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)-3-(methylthio)- (9CI) (CA INDEX NAME)



RN 70685-38-0 CAPLUS  
 CN 2,4-Pentanedione, 3-[(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)(methylthio)methyl]- (9CI) (CA INDEX NAME)

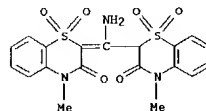


RN 70685-39-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)(methylthio)methyl]-4-methyl-, 1,1-dioxide (9CI) (CA INDEX NAME)



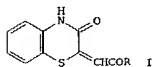
L4 ANSWER 53 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 70685-40-4 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[amino(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-4-methyl-, 1,1-dioxide (9CI) (CA INDEX NAME)



L4 ANSWER 54 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1979:152210 CAPLUS  
 DOCUMENT NUMBER: 90:152210  
 TITLE: 2-Phenacylidenebenzo-1,4-thiazin-3-ones  
 INVENTOR(S): Andreichikov, Yu. S.; Tendryakova, S. P.; Nalimova, Yu. A.; Voronova, L. A.; Vilenchik, Ya. M.  
 PATENT ASSIGNEE(S): Perm Pharmaceutical Institute, USSR  
 SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1978, 55(40), 78.  
 CODEN: URXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Russian  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.                   | KIND | DATE     | APPLICATION NO. | DATE       |
|------------------------------|------|----------|-----------------|------------|
| SU 630254                    | T    | 19781030 | SU 1976-2361368 | 19760518   |
| PRIORITY APPLN. INFO.:<br>GI |      |          | SU 1976-2361368 | A 19760518 |

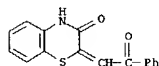


AB The preparation of title compds. I (R = Ph, p-tolyl, p-MeOC6H4, BrC6H4) by treating o-HSC6H4NH2 with a dicarbonyl derivative in an organic solvent was improved by using the corresponding 5-aryl-2,3-furandione as the dicarbonyl derivative in C6H6.

IT 64393-75-5P 64393-76-6P 64393-77-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 64393-75-5 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-oxo-2-phenylethylidene)- (9CI) (CA INDEX NAME)



RN 64393-76-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methylphenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)

L4 ANSWER 55 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1979:54901 CAPLUS  
 DOCUMENT NUMBER: 90:54901  
 TITLE: Studies of the blue color of some mesoionic  
 1,3-thiazolo[3,2-a]-4-quinazolones  
 AUTHOR(S): Talukdar, P. B.; Sengupta, S. K.; Datta, A. K.  
 CORPORATE SOURCE: Res. Dev. Div., East India Pharm. Works Ltd., Calcutta, India  
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1978), 16B(8), 678-82  
 CODEN: IJSBDB; ISSN: 0376-4699  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 90:54901

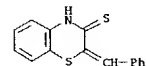
GI For diagram(s), see printed CA Issue.

AB Synthetic studies on the blue color of mesoionic thiazolo[3,2-a]-4-quinazolones (I, R = e.g. p-MeC6H4) suggest that an aryl type substituent at N-3 and a polar CO group at N-1 in the 4-quinazolone residue are essential structural features necessary for the development of a blue color. Whereas 9-mercaptophenanthridine gives a stable orange-yellow compound, attempted synthesis of similar fused ring mesoionic systems from 1,8-naphthyridine, 1,4-benzothiazine and quinoxaline derivs. yield highly sensitive unstable compds.

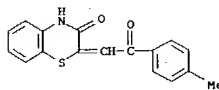
IT 69001-93-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction with sodium chloroacetate)

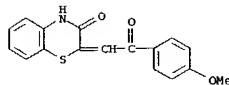
RN 69001-93-0 CAPLUS  
 CN 2H-1,4-Benzothiazine-3(4H)-thione, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)



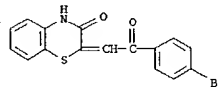
L4 ANSWER 54 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 64393-77-7 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methoxyphenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)

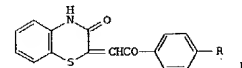


RN 64393-80-2 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-bromophenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



L4 ANSWER 56 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1978:529528 CAPLUS  
 DOCUMENT NUMBER: 89:129528  
 TITLE: 2-Phenacylidenebenzo-1,4-thiazin-3-ones  
 INVENTOR(S): Andreichikov, Yu. S.; Tendryakova, S. P.; Nalimova, Yu. A.; Voronova, L. A.  
 PATENT ASSIGNEE(S): Perm Pharmaceutical Institute, USSR  
 SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1978, 55(26), 76.  
 CODEN: URXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Russian  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.                   | KIND | DATE     | APPLICATION NO. | DATE       |
|------------------------------|------|----------|-----------------|------------|
| SU 615071                    | T    | 19780715 | SU 1975-2154320 | 19750708   |
| PRIORITY APPLN. INFO.:<br>GI |      |          | SU 1975-2154320 | A 19750708 |

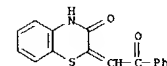


AB Title compds. I (R = H, Me, MeO, Et, Br) were prepared by treating o-H2NC4H4SH with p-RC6H4COCH2COC6H5 at 95-105° in dioxane.

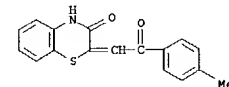
IT 64393-75-5P 64393-76-6P 64393-77-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 64393-75-5 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-oxo-2-phenylethylidene)- (9CI) (CA INDEX NAME)

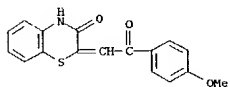


RN 64393-76-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methylphenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)

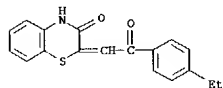


L4 ANSWER 56 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

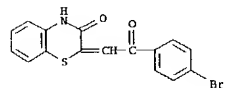
RN 64393-77-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methoxyphenyl)-2-oxoethylidene]-  
(9CI) (CA INDEX NAME)

RN 64393-78-8 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-ethylphenyl)-2-oxoethylidene]-  
(9CI) (CA INDEX NAME)

RN 64393-80-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-bromophenyl)-2-oxoethylidene]-  
(9CI) (CA INDEX NAME)

L4 ANSWER 57 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1978:509526 CAPLUS

DOCUMENT NUMBER: 89:109526

TITLE: Substituted 2H-1,4-benzothiazin-3(4H)-ones

INVENTOR(S): Krapcho, John

PATENT ASSIGNEE(S): E. R. Squibb and Sons, Inc., USA

SOURCE: U.S., 7 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

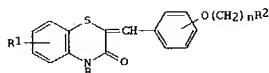
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| US 4078062             | A    | 19780307 | US 1976-736620  | 19761028 |
| PRIORITY APPLN. INFO.: |      |          | US 1976-736620  | 19761028 |

GI



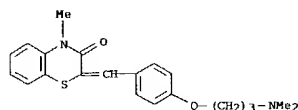
AB The title compds. I (R = H, alkyl, aralkyl, R1 = H, halo, alkyl, alkoxy, CF3, NH2, NO2, R2 = dialkylamino, piperidino, morpholino, alkylpiperazinyl, n = 2-5), useful as inflammation inhibitors, were prepared by condensing 4-methyl-1,4-benzothiazin-3(4H)-one with R2(CH2)nOC6H4CHO, isolated as the hydrochlorides.

IT 66820-19-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and inflammation inhibiting activity of)

RN 66820-19-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-[3-(dimethylamino)propoxy]phenyl]methylidene]-4-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

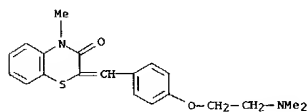
IT 66820-21-1P 66820-24-4P

L4 ANSWER 57 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and inflammation-inhibiting activity of)

RN 66820-21-1 CAPLUS

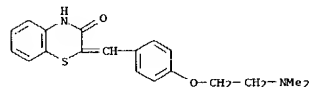
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-[2-(dimethylamino)ethoxy]phenyl]methylidene]-4-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 66820-24-4 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-[2-(dimethylamino)ethoxy]phenyl]methylidene]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

IT 66820-18-6P 66820-20-0P 66820-22-2P

66820-23-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and salt formation from)

RN 66820-18-6 CAPLUS

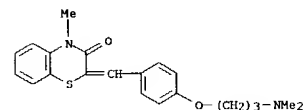
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-[3-(dimethylamino)propoxy]phenyl]methylidene]-4-methyl-, ethanedioate (9CI) (CA INDEX NAME)

CH 1

CRN 66820-17-5

CMF C21 H24 N2 O2 S

L4 ANSWER 57 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CH 2

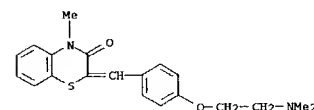
CRN 144-62-7

CMF C2 H2 O4



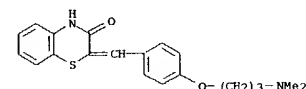
RN 66820-20-0 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-[2-(dimethylamino)ethoxy]phenyl]methylidene]-4-methyl- (9CI) (CA INDEX NAME)



RN 66820-22-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-[3-(dimethylamino)propoxy]phenyl]methylidene]- (9CI) (CA INDEX NAME)

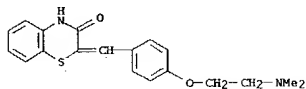


RN 66820-23-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-[2-(dimethylamino)ethoxy]phenyl]methylidene]- (9CI) (CA INDEX NAME)

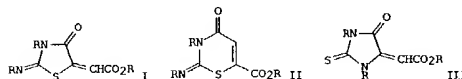


L4 ANSWER 57 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



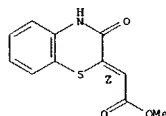
L4 ANSWER 58 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1978:405576 CAPLUS  
 DOCUMENT NUMBER: 89:5576  
 TITLE: Carbon-13 NMR spectroscopy, part 19. Structures of addition products of acetylenedicarboxylic acid esters with various dinucleophiles. An application of C,H-spin-coupling constants  
 AUTHOR(S): Voegeli, Ulrich; Von Philipsborn, Wolfgang; Nagarajan, Kuppuswamy; Nair, Mohan D.  
 CORPORATE SOURCE: Inst. Org. Chem., Univ. Zurich, Zurich, Switz.  
 SOURCE: Helvetica Chimica Acta (1978), 61(2), 607-17  
 CODEN: HCACAV; ISSN: 0018-019X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI

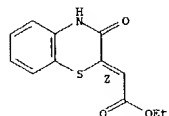


AB Heterocyclic compds. of the general types I, II, and III (R = alkyl), obtained by addition reaction of acetylenedicarboxylate esters with thioureas, cyclic amidines, etc., were studied by C-13 NMR. Constitutional isomers were distinguished by C-H spin coupling consts. Configurations of trisubstituted exocyclic C-C double bonds were determined  
 IT 37893-72-4 66628-74-8  
 RL: PRP (Properties)  
 (NMR of)  
 RN 37893-72-4 CAPLUS  
 CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 66628-74-8 CAPLUS  
 CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl ester, (Z)- (9CI) (CA INDEX NAME)

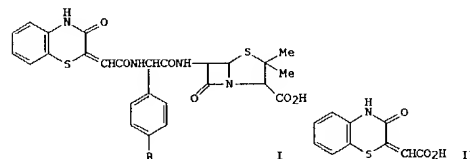
L4 ANSWER 58 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
Double bond geometry as shown.

L4 ANSWER 59 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

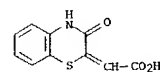
ACCESSION NUMBER: 1978:50888 CAPLUS  
 DOCUMENT NUMBER: 88:50888  
 TITLE: Acylaminopenicillins  
 INVENTOR(S): Kuramoto, Masashi; Yaso, Masao; Sakeko, Magoichi;  
 Saito, Satoshi; Yamaguchi, Tutomu; Maki, Hirofumi  
 PATENT ASSIGNEE(S): Toyo Jozo Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| JP 52091888            | A2   | 19770802 | JP 1976-8740    | 19760128 |
| PRIORITY APPLN. INFO.: |      |          | JP 1976-8740    | 19760128 |

GI



AB Two title compds. I (R = H, OH) were prepared by reaction of ampicillin or amoxicillin with II or its derivs. Thus, 0.18 mL ClCO2Et and a mixture of 0.44 g II and Et3N in DMF (ice-NaCl cooled) were stirred 20 min, a mixture of 0.8 g ampicillin-3H2O and Et3N in DMF added, and the whole stirred 5 h at room temperature to give 1.05 g I (R = H) (III). Min. growth inhibitory concentration of III against Pseudomonas pyocyanea was 6.2 mcg/mL.  
 IT 63351-92-8  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (acylation of ampicillin by)  
 RN 63351-92-8 CAPLUS  
 CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)- (9CI) (CA INDEX NAME)



IT 65283-01-4P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study); UNCLASSIFIED; SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

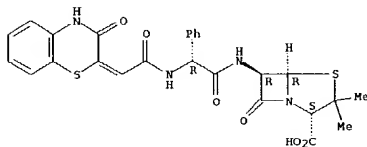
11/18/2004

Habte

L4 ANSWER 59 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

(prepn. and bactericidal activity of)  
 RN 65283-01-4 CAPLUS  
 CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)acetyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2 $\alpha$ ,5 $\alpha$ ,6 $\beta$ (S\*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.

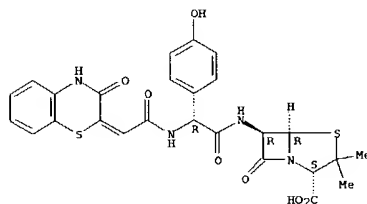


IT 65283-02-5P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

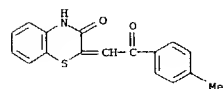
RN 65283-02-5 CAPLUS  
 CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)acetyl]amino]phenylacetyl]amino]-4-(hydroxyphenyl)acetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2 $\alpha$ ,5 $\alpha$ ,6 $\beta$ (S\*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.



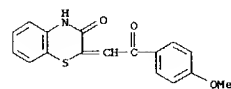
L4 ANSWER 60 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methylphenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



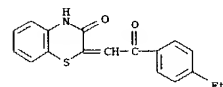
RN 64393-77-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methoxyphenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



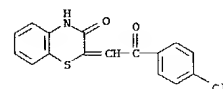
RN 64393-78-8 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-ethylphenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



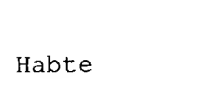
RN 64393-79-9 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-chlorophenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



RN 64393-80-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-bromophenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



L4 ANSWER 60 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1977:567957 CAPLUS

DOCUMENT NUMBER: 87:167957

TITLE: Chemistry of oxalyl derivatives of methyl ketones. V. Reaction of arylpyruvic acids and their derivatives with o-aminothiophenol

Andreichikov, O. S.; Tendryakova, S. P.; Nalimova, Yu. A.; Voronova, L. A.

Perm. Facm. Inst., Perm, USSR

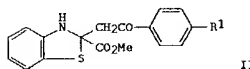
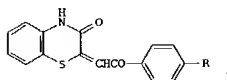
SOURCE: Khimiya Geterotsiklicheskih Soedinenii (1977), (6), 755-7

CODEN: KGSSAQ; ISSN: 0132-6244

DOCUMENT TYPE: Journal

LANGUAGE: Russian

GI



AB Benzothiazinones I (R = H, Me, MeO, Et, Cl, Br, F) were obtained in 72-82% yields by cyclocondensation p-RC6H4COCH2COCO2H with o-H2NC6H4SH. I (R = H, Me, MeO, Br) were obtained in 76-98% yields by cyclocondensation of the corresponding 5-aryl-2,3-furandione with o-H2NC6H4SH. Benzothiazolines II (R1 = H, Me, MeO, Cl) were obtained in 85-98% yields by cyclocondensation of p-R1C6H4COCH2COCO2Me with o-H2NC6H4SH.

IT 64393-75-5P 64393-76-6P 64393-77-7P

64393-78-8P 64393-79-9P 64393-80-2P

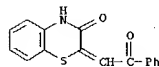
64393-81-3P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

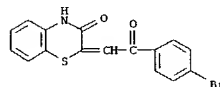
RN 64393-75-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-oxo-2-phenylethylidene)- (9CI) (CA INDEX NAME)



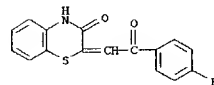
RN 64393-76-6 CAPLUS

L4 ANSWER 60 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 64393-81-3 CAPLUS

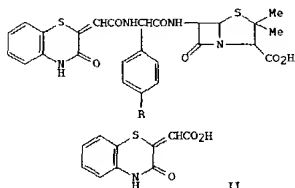
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-fluorophenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



L4 ANSWER 61 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1977:468378 CAPLUS  
 DOCUMENT NUMBER: 87:68378  
 TITLE:  $\alpha$ -Acyamidobenzylpenicillins  
 INVENTOR(S): Kuramoto, Masashi; Yaso, Masao; Sakou, Magoichi;  
 Saito, Tetsu; Yamaguchi, Tsutomu; Maki, Yoshifumi  
 PATENT ASSIGNER(S): Toyo Jozo Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.  
 CODEN: JKKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

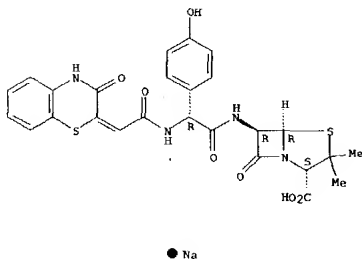
| PATENT NO.                                    | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| JP 51133298                                   | A2   | 19761118 | JP 1975-58239   | 19750515 |
| PRIORITY APPLN. INFO.: JP 1975-58239 19750515 |      |          |                 |          |

GI



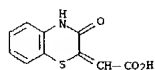
AB I (R = H, OH) Na salts were prepared by acylating  $\alpha$ -aminobenzylpenicillins or their salts with II or its reactive derivs. I (R = H) inhibited the growth of *Pseudomonas pyocyanea* NCTC 10490 at 0.2  $\mu$ g/mL. Thus, 0.44 g II was activated with ClCO<sub>2</sub>Et-Et<sub>3</sub>N in DMF and stirred with 0.8 g ampicillin-3H<sub>2</sub>O to give 1.05 g I (R = H) Na salt.  
 IT 63351-92-8  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (acylation of ampicillin and amoxycillin by)  
 RN 63351-92-8 CAPLUS  
 CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)- (9CI) (CA INDEX NAME)

L4 ANSWER 61 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



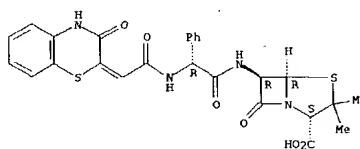
● Na

L4 ANSWER 61 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



IT 63351-93-9P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation and bactericidal activity of)  
 RN 63351-93-9 CAPLUS  
 CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)acetyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2 $\alpha$ ,5 $\alpha$ ,6 $\beta$ (S\*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.

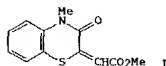


● Na

IT 63397-82-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 63397-82-0 CAPLUS  
 CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)acetyl]amino][4-hydroxyphenyl]acetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2 $\alpha$ ,5 $\alpha$ ,6 $\beta$ (S\*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry unknown.

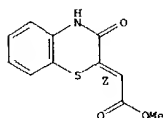
L4 ANSWER 62 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1977:105433 CAPLUS  
 DOCUMENT NUMBER: 86:105433  
 TITLE: Facile thermal dimerization of a photochemically  
 isomerized olefin  
 AUTHOR(S): Maki, Yoshifumi; Sako, Magoichi  
 CORPORATE SOURCE: Gifu Coll. Pharm., Gifu, Japan  
 SOURCE: Chemical & Pharmaceutical Bulletin (1976), 24(9), 2250-3  
 CODEN: CPBTAL; ISSN: 0009-2363  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI



AB In sharp contrast to the Z form of I, the photochem.-produced isomer, E-I, underwent a facile thermal dimerization to form a cyclobutane derivative. Thus, the apparent photodimerization of Z-I involves primarily the thermal dimerization of its photochem. produced isomer.

IT 37893-72-4  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (methylation of)  
 RN 37893-72-4 CAPLUS  
 CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

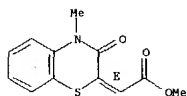


IT 61955-27-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and photochem. cyclodimerization of)  
 RN 61955-27-9 CAPLUS  
 CN Acetic acid, (3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

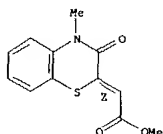
L4 ANSWER 62 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 62 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



IT 61955-26-8P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and photoisomerization of)  
 RN 61955-26-8 CAPLUS  
 CN Acetic acid, (3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-,  
 methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

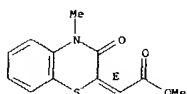


IT 61960-48-3P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 61960-48-3 CAPLUS  
 CN Acetic acid, (3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-,  
 methyl ester, (E)-, dimer (9CI) (CA INDEX NAME)

CH 1

CRN 61955-27-9  
 CHF C12 H11 N O3 S

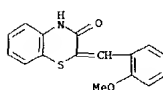
Double bond geometry as shown.



L4 ANSWER 63 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1976:74279 CAPLUS  
 DOCUMENT NUMBER: 84:74279  
 TITLE: 3,4-Dihydro-3-oxo-2H-1,4-benzothiazines and  
 benzoxazines  
 INVENTOR(S): Worley, Jimmy W.  
 PATENT ASSIGNEE(S): Monsanto Co., USA  
 SOURCE: U.S., 7 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|----------------|------|----------|-----------------|----------|
| US 3923709     | A    | 19751202 | US 1974-502114  | 19740830 |
| US 1974-502114 |      |          | US 1974-502114  | 19740830 |

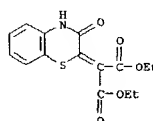
PRIORITY APPLN. INFO.:  
 GI For diagram(s), see printed CA Issue.  
 AB The benzothiazines I (R = CH2CO2Et, X = m-F3CC6H4CH, 3,4-methylenedioxybenzylidene, p-MeOC6H4CH, m-O2NC6H4CH, 2,4-Cl2C6H3CH) were prepared by reaction of I [R = CH2CO2Et, X = H, P(O)(OEt)2] with aldehydes. I [R = CH2CO2Et; 3,5-(MeO)2C6H3CH, 3,4,5-(MeO)3C6H2CH, PhCH, cyclohexylidene, Me2C, etc.] were prepared by treating I [R = H, X = H, P(O)(OEt)2] with aldehydes followed by bromoacetates. Et 3,4-dihydro-2-(p-chlorobenzylidene)-3-oxo-2H-1,4-benzoxazine-4-acetate was similarly prepared in preemergence application at 4-10 lbs/acre I controlled broadleaf plants.  
 IT 58216-00-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction with bromoacetate)  
 RN 58216-00-5 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)



L4 ANSWER 64 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1976:59503 CAPLUS  
 DOCUMENT NUMBER: 84:59503  
 TITLE: 2-Substituted methylene-3,4-dihydro-3-oxo-2H-1,4-benzothiazine-4-acetic acid and esters  
 Worley, Jimmy W.  
 INVENTOR(S): Monsanto, USA  
 PATENT ASSIGNEE(S): U.S., 3 pp.  
 SOURCE: CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|----------------|------|----------|-----------------|----------|
| US 3910904     | A    | 19751007 | US 1974-496507  | 19740812 |
| US 1974-496507 |      |          | US 1974-496507  | 19740812 |

PRIORITY APPLN. INFO.:  
 GI For diagram(s), see printed CA Issue.  
 AB Four benzothiazines I (X = H, CO2R; R = H, Me, Et; R1 = H, Et), useful in regulation of plant growth, e.g., soybeans, were prepared, where X = H, by reaction of 2-(alkoxycarbonyl)methylene-3,4-dihydro-3-oxo-2H-1,4-benzothiazine with BrCH2CO2Et in Me2CO at reflux in the presence of KOH (optionally followed by hydrolysis), and where X = CO2R, by reaction of 2-chloro-3,4-dihydro-3-oxo-2H-1,4-benzothiazine with P(OEt)3 at 100° and sequentially treating the product with CO(CO2Et)2 in EtOH containing EtONa and with BrCH2CO2Et in Me2CO-KOH.  
 IT 55043-52-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction of, with ethyl bromoacetate)  
 RN 55043-52-2 CAPLUS  
 CN Propanedioic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, diethyl ester (9CI) (CA INDEX NAME)

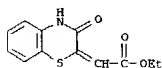


IT 13677-06-0 54255-33-3  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with ethyl bromoacetate)  
 RN 13677-06-0 CAPLUS  
 CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl ester (9CI) (CA INDEX NAME)

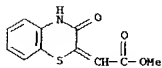
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L4 ANSWER 64 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

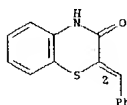


RN 54255-33-3 CAPLUS  
 CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 65 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1975:443441 CAPLUS  
 DOCUMENT NUMBER: 83:43441  
 TITLE: 2-Dialkylphosphonyl- and 2-alkylidene-3,4-dihydro-3-oxo-2H-1,4-benzothiazines  
 AUTHOR(S): Worley, J. W.; Ratts, K. Wayne; Cammack, K. L.  
 CORPORATE SOURCE: Res. Dep., Monsanto Agric. Prod. Co., St. Louis, MO, USA  
 SOURCE: Journal of Organic Chemistry [1975], 40(12), 1731-4  
 CODEN: JOCEAH; ISSN: 0022-3263  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 83:43441  
 GI For diagram(s), see printed CA Issue.  
 AB Benzothiazinylphosphonates [I, R = H, Me, CH<sub>2</sub>CO<sub>2</sub>Et; R<sub>1</sub> = P(O)(OEt)<sub>2</sub>] were prepared by the Michaelis-Arbuzov reaction of P(OEt)<sub>3</sub> with I (R<sub>1</sub> = Cl). I [R<sub>1</sub> = P(O)(OEt)<sub>2</sub>] reacts with R<sub>2</sub>CHO (R<sub>2</sub> = H, Ph, substituted phenyl, 2-thienyl, 9-anthryl, PhCH<sub>2</sub>CH<sub>2</sub>) to give (Z)-II.  
 IT 55043-20-4P 55043-21-5P 55043-22-6P  
 55043-23-7P 55043-24-8P 55043-25-9P  
 55043-26-0P 55043-28-2P 55043-29-3P  
 55043-30-6P 55043-31-7P 55043-51-1P  
 55043-52-2P 55043-53-3P  
 RL: SPW (Synthetic preparation); PREP (Preparation) (preparation of)  
 RN 55043-20-4 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)-, (Z)- (9CI) (CA INDEX NAME)

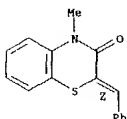
Double bond geometry as shown.



RN 55043-21-5 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)-, (Z)- (9CI) (CA INDEX NAME)

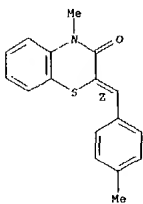
Double bond geometry as shown.

L4 ANSWER 65 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



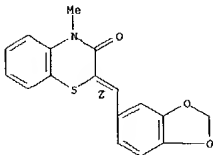
RN 55043-22-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[(4-methylphenyl)methylene]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 55043-23-7 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1,3-benzodioxol-5-yl)methylene]-4-methyl-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

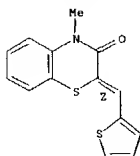


RN 55043-24-8 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(2-thienylmethylene)-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

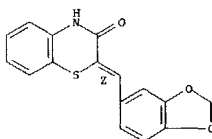
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L4 ANSWER 65 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



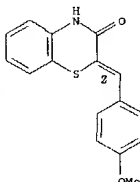
RN 55043-25-9 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1,3-benzodioxol-5-yl)methylene]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 55043-26-0 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

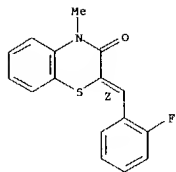


RN 55043-28-2 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-fluorophenyl)methylene]-4-methyl-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

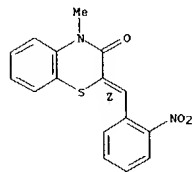
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L4 ANSWER 65 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



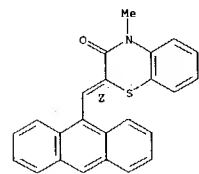
RN 55043-29-3 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[(2-nitrophenyl)methylene]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 55043-30-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(9-anthracenylmethylene)-4-methyl-, (Z)- (9CI) (CA INDEX NAME)

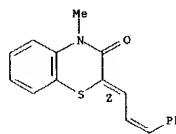
Double bond geometry as shown.



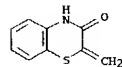
L4 ANSWER 65 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 65 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 RN 55043-31-7 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(3-phenyl-2-propenylidene)-, (Z)- (9CI) (CA INDEX NAME)

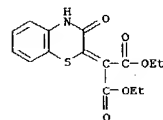
Double bond geometry as described by E or Z.



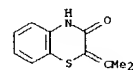
RN 55043-51-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-methylene- (9CI) (CA INDEX NAME)



RN 55043-52-2 CAPLUS  
 CN Propanedioic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, diethyl ester (9CI) (CA INDEX NAME)

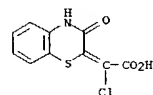


RN 55043-53-3 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1-methylethylidene)- (9CI) (CA INDEX NAME)



L4 ANSWER 66 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

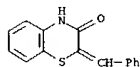
ACCESSION NUMBER: 1975:141592 CAPLUS  
 DOCUMENT NUMBER: 82:141592  
 TITLE: Heterocyclic coloring matters. II. A2,2-Bi(2H-1,4-benzothiazines)  
 AUTHOR(S): Kaul, B. L.  
 CORPORATE SOURCE: Dyes Dep.-Dyes Chem. Res., Sandoz Ltd., Basel, Switz.  
 SOURCE: Helvetica Chimica Acta (1974), 57(8), 2664-78  
 CODEN: HCACAV; ISSN: 0018-019X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 82:141592  
 GI For diagram(s), see printed CA issue.  
 AB Dyes (I, R = H, Br, Cl, Me, MeO, CF<sub>3</sub>; R1=H, Me, MeO, EtO) having the A2,2'-bi(3,4-dihydro-3-oxo-2H-1,4-benzothiazine) chromophore were prepared by the one-step reaction of 2,3-dichloromaleic acid [1122-17-4] with zinc salts of o-aminobenzenethiol derivs. The structure, substitution reactions, mechanism of formation, color, and other relevant properties of the system were determined and compared to known thioindigos.  
 A synthesis of the basic skeleton of one of the Trichosiderins, the coloring matter of human red hair was described.  
 IT 54392-69-7P  
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)  
 RN 54392-69-7 CAPLUS  
 CN Acetic acid, chloro(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)- (9CI) (CA INDEX NAME)



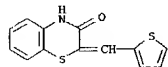
L4 ANSWER 67 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1975:140162 CAPLUS  
 DOCUMENT NUMBER: 82:140162  
 TITLE: 2-Arylmethylene-1,4-benzothiazin-3(4H)-ones  
 INVENTOR(S): Anzai, Naomichi; Ishii, Tadao; Shibata, Uichi; Seki, Shigeo  
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKKKAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|-------------|------|----------|-----------------|----------|
| JP 49101389 | A2   | 19740925 | JP 1973-15660   | 19730209 |
| JP 57053350 | B4   | 19821112 |                 |          |

PRIORITY APPLN. INFO.: JP 1973-15660 19730209  
 GI For diagram(s), see printed CA Issue.  
 AB Title compds. I (R = Ph, MeOC6H4, O2NC6H4, BrC6H4, ClC6H4, Cl2C6H3, thienyl, furyl) are prepared by condensation of 2H-1,4-benzothiazin-3(4H)-one (II) and aromatic aldehydes. I had antiinflammatory effect in rats and were effective against HeLa cells and Trichomonas vaginalis. Thus, 1.7 g II was dissolved in 100 ml 2N KOH-EtOH and heated with 1.1 g BzH at 70° for 2 hr to give 82.6% I (R = Ph). Among 8 more I prepared were those where R = o-MeOC6H4, p-O2NC6H4, 2,4-Cl2C6H3, and 2-thienyl.  
 IT 24545-07-1P 50393-32-3P 54874-53-2P  
 54874-54-3P 54874-55-4P 54874-62-3P  
 54874-84-9P 54874-85-0P 54913-29-0P  
 RL: SPM (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 24545-07-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)

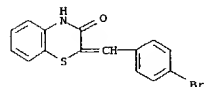


RN 50393-32-3 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-thienylmethylene)- (9CI) (CA INDEX NAME)

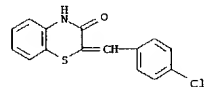


RN 54874-53-2 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-methylphenyl)methylene]- (9CI) (CA INDEX NAME)

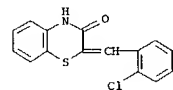
L4 ANSWER 67 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



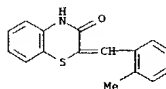
RN 54874-85-0 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]- (9CI) (CA INDEX NAME)



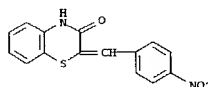
RN 54913-29-0 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-chlorophenyl)methylene]- (9CI) (CA INDEX NAME)



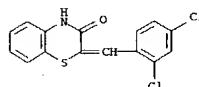
L4 ANSWER 67 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



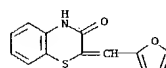
RN 54874-54-3 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-nitrophenyl)methylene]- (9CI) (CA INDEX NAME)



RN 54874-55-4 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2,4-dichlorophenyl)methylene]- (9CI) (CA INDEX NAME)

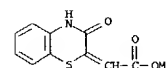


RN 54874-62-3 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-furanylmethylene)- (9CI) (CA INDEX NAME)



RN 54874-84-9 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-bromophenyl)methylene]- (9CI) (CA INDEX NAME)

L4 ANSWER 68 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1974:552071 CAPLUS  
 DOCUMENT NUMBER: 81:152071  
 TITLE: Fungicides. XXIV. Reaction of 5-methoxycarbonylmethylidene-2-thioxo-(or oxo)-4-thiazolidones with o-aminobenzenethiol and other thiols  
 AUTHOR(S): Nagase, Hiroshi  
 CORPORATE SOURCE: Agric. Chem. Div., Takeda Chem. Ind., Ltd., Osaka, Japan  
 SOURCE: Chemical & Pharmaceutical Bulletin (1974), 22(1), 42-9  
 CODEN: CPBTAL; ISSN: 0009-2363  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI For diagram(s), see printed CA Issue.  
 AB A novel addition reaction of o-aminobenzenethiol to 5-methoxycarbonylmethylidene-2-thioxo-(or oxo)-4-thiazolidones (I) gave 3-methyl (or benzyl)-5-(3-oxo-2,3-dihydro-4H-1,4-benzothiazin-2-yl)-2-thioxo-(or oxo)-4-thiazolidones (II). I also reacted with thiols to afford 1:1 adducts (III and IV) in the presence of a catalytic amount of NEt3. Thermal cyclization of the adducts III to II was observed. The adducts IV dissociated into I and thiols when heated above their m.p. or dissolved in acetone or ethanol. Oxidation of II and IV gave the dehydro-compds. V and VI, resp.  
 IT 54255-33-3  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction with triethylammonium benzyldithiocarbamate)  
 RN 54255-33-3 CAPLUS  
 CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 69 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1973:542782 CAPLUS

DOCUMENT NUMBER: 79:142782

TITLE: 4-[[3-(Dimethylamino)propyl]-3,4-dihydro-2-(1-hydroxyethyl)-3-phenyl-2H-1,4-benzothiazine and related compounds. New class of antiinflammatory agents

AUTHOR(S): Krapcho, John; Turk, Chester F.

CORPORATE SOURCE: JMCNAR Inst. Med. Res., Princeton, NJ, USA

SOURCE: Journal of Medicinal Chemistry (1973), 16(7), 776-9

CODEN: JMCNAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Several of 23 benzothiazines synthesized show significant antiinflammatory activity in rats, the most potent being 4-[[3-(dimethylamino)propyl]-3,4-dihydro-2-(1-hydroxyethyl)-3-phenyl-2H-1,4-benzothiazine-HCl (I-HCl) (42585-60-4) and 2-acetyl-4-[[3-(dimethylamino)propyl]-3,4-dihydro-3-phenyl-2H-1,4-benzothiazine-HCl (II-HCl) (42381-03-3). I and II inhibited carrageenin-induced rat paw edema at 55 and 65 mg/kg orally, respectively. To synthesize I, 2-aminobenzenethiol [137-07-5] was condensed with chloroacetic acid [79-11-8] to form 1,4-benzothiazin-3(4H)-one (5325-20-2), then with BzH to form the 2-benzylidene derivative and with 3-dimethylaminopropyl chloride [109-54-6] to attach the side chain. Interaction with MeMgBr followed by aqueous NH<sub>4</sub>Cl and heating resulted in rearrangement to II, reduction of which with NaBH<sub>4</sub> yielded I.

IT 33216-62-5P 50346-41-3P 50346-42-4P

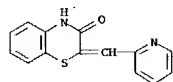
50346-43-5P 50393-32-3P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

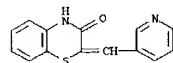
RN 33216-62-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-pyridinylmethylene)- (9CI) (CA INDEX NAME)



RN 50346-41-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(3-pyridinylmethylene)- (9CI) (CA INDEX NAME)



RN 50346-42-4 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(4-pyridinylmethylene)- (9CI) (CA INDEX NAME)

L4 ANSWER 70 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1973:124527 CAPLUS

DOCUMENT NUMBER: 78:124527

TITLE: Reaction of the Vilsmeier product, 3-chloro-2-dimethylaminomethylene-1,4-benzothiazine, with aromatic amines and active methylene compounds

Shah, S. R.; Seshadri, S.

CORPORATE SOURCE: Dept. Chem. Technol., Univ. Bombay, India

SOURCE: Indian Journal of Chemistry (1972), 10(10), 977-81

CODEN: IJOCAP; ISSN: 0019-5103

DOCUMENT TYPE: Journal

LANGUAGE: English

AB For diagram(s), see printed CA issue. The reaction of 3-chloro-2-dimethylaminomethylene-1,4-benzothiazine (I) with aromatic amines in HOAc was studied. The reaction with aniline and with p-chloroaniline in the presence of pyridine gave 2-anilinomethylene-1,4-benzothiazin-3(4H)-ones (II, R = H, Cl, resp.) and the 2-formyl-3-anilino-1,4-benzothiazines (III, R = H, Cl, resp.). The reaction with weakly basic aromatic amines proceeded directly (without involving rearrangement) to give anilinomethylenebenzothiazinones. The reaction of I with some active methylene compds. in HOAc in the presence of pyridine was studied.

IT 41526-80-1P 41526-81-2P 41526-85-6P

41526-86-7P 41526-87-8P 41526-88-9P

41526-89-0P 41526-90-3P 41526-91-4P

41526-92-5P 41526-93-6P 41526-94-7P

41526-95-8P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

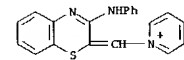
RN 41526-80-1 CAPLUS

CN Pyridinium, 1-[[3-(phenylamino)-2H-1,4-benzothiazin-2-ylidene]methyl]-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 50577-48-5

CMF C20 H16 N3 S



CM 2

CRN 14797-73-0

CMF Cl O4



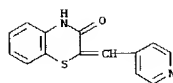
RN 41526-81-2 CAPLUS

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L4 ANSWER 69 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

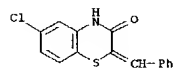
(Continued)

NAME)



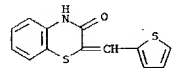
RN 50346-43-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 6-chloro-2-(phenylmethylene)- (9CI) (CA INDEX NAME)



RN 50393-32-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-thienylmethylene)- (9CI) (CA INDEX NAME)



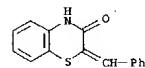
IT 24545-07-1

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with dimethylaminopropyl chloride)

RN 24545-07-1 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)



L4 ANSWER 70 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

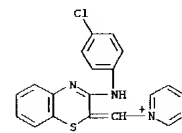
(Continued)

CN Pyridinium, 1-[[3-[(4-chlorophenyl)amino]-2H-1,4-benzothiazin-2-ylidene]methyl]-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 48209-78-5

CMF C20 H15 Cl N3 S



CM 2

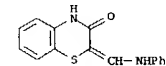
CRN 14797-73-0

CMF Cl O4



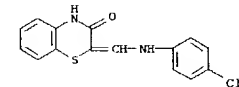
RN 41526-85-6 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(phenylamino)methylene]- (9CI) (CA INDEX NAME)



RN 41526-86-7 CAPLUS

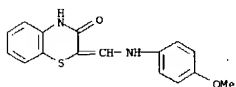
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-chlorophenyl]amino]methylene]- (9CI) (CA INDEX NAME)



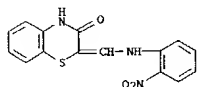
11/18/2004



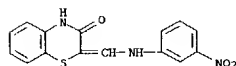
L4 ANSWER 70 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 RN 41526-87-8 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[[(4-methoxyphenyl)amino]methylene]- (9CI) (CA INDEX NAME)



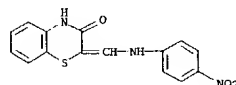
RN 41526-88-9 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[[(2-nitrophenyl)amino]methylene]- (9CI) (CA INDEX NAME)



RN 41526-89-0 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[[(3-nitrophenyl)amino]methylene]- (9CI) (CA INDEX NAME)

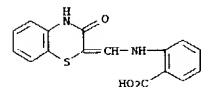


RN 41526-90-3 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[[(4-nitrophenyl)amino]methylene]- (9CI) (CA INDEX NAME)

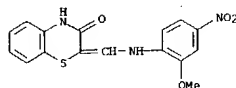


RN 41526-91-4 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[[(2-methoxy-4-nitrophenyl)amino]methylene]- (9CI) (CA INDEX NAME)

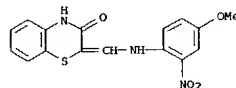
L4 ANSWER 70 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



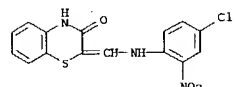
L4 ANSWER 70 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



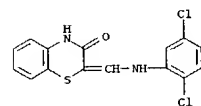
RN 41526-92-5 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[[(4-methoxy-2-nitrophenyl)amino]methylene]- (9CI) (CA INDEX NAME)



RN 41526-93-6 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[[(4-chloro-2-nitrophenyl)amino]methylene]- (9CI) (CA INDEX NAME)



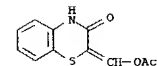
RN 41526-94-7 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[[(2,5-dichlorophenyl)amino]methylene]- (9CI) (CA INDEX NAME)



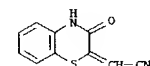
RN 41526-95-8 CAPLUS  
 CN Benzoic acid, 2-[[[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 71 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1973:84341 CAPLUS  
 DOCUMENT NUMBER: 78:84341  
 TITLE: Reactions of Vilsmeier product, 3-chloro-2-dimethylaminomethylene-1,4-benzothiazine derived from 1,4-benzothiazin-3(4H)-one  
 AUTHOR(S): Shah, S. R.; Seshadri, S.  
 CORPORATE SOURCE: Dep. Chem. Technol., Univ. Bombay, Matunga, India  
 SOURCE: Indian Journal of Chemistry (1972), 10(8), 820-2  
 CODEN: IJOCAP; ISSN: 0019-5103  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI For diagram(9), see printed CA issue.  
 AB The properties of 3-chloro-2-(dimethylaminomethylene)-1,4-benzothiazine (I, R = Cl) (II) [the Vilsmeier product derived from 1,4-benzothiazin-3(4H)-one] are described. Hydrolysis under different conditions gave 1,4-benzothiazine-2-carboxylic acid (III, R = H, R1 = CO2H), 1,4-benzothiazin-3(4H)-one-2-carboxaldehyde, or 3-chloro-1,4-benzothiazine-2-carboxaldehyde III (R = H, R1 = CHO), depending on the method of hydrolysis. Reaction of the perchlorate of II with pyridine leads to the selective attack at the aminomethylene function yielding a pyridinium salt (IV), but reaction with Me2SO leads to the displacement of chlorine yielding a dimethylsulphoxonium derivative I (R = Me2S+O)ClO4-. Reaction of II with NaOAc or KCN in HOAc gave the benzothiazinones (V, R = OAc, CN, resp.).  
 IT 39974-42-0P 39974-43-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)  
 RN 39974-42-0 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(acetyloxy)methylene]- (9CI) (CA INDEX NAME)

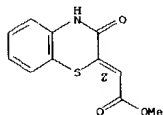


RN 39974-43-1 CAPLUS  
 CN Acetonitrile, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)- (9CI) (CA INDEX NAME)



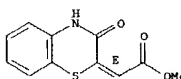
L4 ANSWER 72 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1972:461922 CAPLUS  
 DOCUMENT NUMBER: 77:61922  
 TITLE: Reaction of 2-aminothiophenol with dimethyl acetylenedicarboxylate  
 AUTHOR(S): Maki, Yoshifumi; Suzuki, Mikio  
 CORPORATE SOURCE: Gifu Coll. Pharm., Gifu, Japan  
 SOURCE: Chemical & Pharmaceutical Bulletin (1972), 20(4), 832-4  
 CODEN: CPBTAL; ISSN: 0009-2363  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI For diagram(s), see printed CA issue.  
 AB Ose-H2NCGH4SH (I) and MeO2CC.tplbond.CO2Me (II) gave benzothiazine (trans-III) (IV), which was photochem. isomerized to cis-III (V).  
 and hydrogenation of IV gave VI. Photochem. addition of I and II gave IV, V,  
 and di-Me fumarate, as well as other products.  
 IT 37893-72-4P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 37893-72-4 CAPLUS  
 CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (2)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L4 ANSWER 73 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1972:461917 CAPLUS  
 DOCUMENT NUMBER: 77:61917  
 TITLE: Aminobenzenes. VIII. Rearrangement of phenyl carbamates. Syntheses of 2,4-dioxo-3,4-dihydro-2H-1,3-benzoxazines and salicylamides  
 AUTHOR(S): Effenberger, Franz; Niess, Rolf; Schick, Max  
 CORPORATE SOURCE: Inst. Org. Chem., Univ. Stuttgart, Stuttgart, Fed. Rep. Ger.  
 SOURCE: Chemische Berichte (1972), 105(6), 1926-42  
 CODEN: CHBEAM; ISSN: 0009-2940  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 OTHER SOURCE(S): CASREACT 77:61917  
 GI For diagram(s), see printed CA issue.  
 AB Thermal rearrangement of N-aryl-substituted m-RCGH4O2CNHR1 (I, R = pyrrolidinyl, piperidino, or Me2N; R1 = Ph, Bz, or p-ClC6H4CO) obtained from m-RCGH4OH and RINCO gave 4,2-R(HO)C6H3-COHR1 (II), whereas N-alkoxy-substituted I gave 2,4-dioxo-3,4-dihydro-2H-1,3-benzoxazines (III). III were cleaved by dilute KOH with CO2 evolution to give II (R1 = H). The mechanism of this Fries rearrangement-like reaction involving an intramol. path is discussed.  
 IT 37893-32-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 37893-32-6 CAPLUS  
 CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L4 ANSWER 74 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1972:419657 CAPLUS  
 DOCUMENT NUMBER: 77:19657  
 TITLE: 2-[4-(Dimethylamino)alkoxy]benzylidene]-4-methyl-2H-1,4-benzothiazin-3(4H)-ones  
 INVENTOR(S): Krapcho, John  
 PATENT ASSIGNEE(S): E. R. Squibb and Sons, Inc.  
 SOURCE: Ger. Offen., 29 pp.  
 CODEN: GWXXIX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|-------------|------|----------|-----------------|----------|
| DE 2150661  | A    | 19720413 | DE 1971-2150661 | 19711011 |
| US 3715533  | A    | 19720206 | US 1970-80196   | 19701012 |
| CH 561710   | A    | 19750515 | CH 1971-14807   | 19711011 |
| FR 2110376  | A5   | 19720602 | FR 1971-36633   | 19711012 |
| FR 2110376  | B1   | 19750207 |                 |          |
| HU 163946   | P    | 19731128 | HU 1971-SUG78   | 19711012 |
| JP 55018707 | B4   | 19800521 | JP 1971-80490   | 19711012 |
| GB 1373537  | A    | 19741113 | GB 1971-47261   | 19711111 |
|             |      |          | US 1970-80196   | 19701012 |

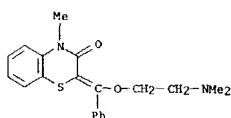
PRIORITY APPL. INFO.:

GI For diagram(s), see printed CA issue.  
 AB Two title compds. (I, n = 2 or 3), useful as antidepressants, were prepared by ring closure of o-H2NCGH4SH and ClCH2CO2H, N-methylation, benzoylation, and aminoalkylation. Thus, ClCH2CO2H was added to o-H2NCGH4SH in NaOH at <30° and the mixture refluxed 4 hr to give 824 II. NaH and then Me2SO4 were added to II in DMF at <30°, and the mixture was heated 2 hr at 100-5° to give 744 III. NaH was added to III and EtOMe in Me2SO and the mixture heated 3 hr at 70-5° to give 904 IV. NaH was added to IV in DMF, the mixture heated at 45°, Me2NCH2CH2Cl in PhMe and then NaI were added at 25°, and the mixture was heated 3 hr at 100-5° to give I (n = 2), which was precipitated as hydrochloride and recrystd. as maleate in 31% yield.  
 IT 37142-84-0P 37142-85-1P 37142-86-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 37142-84-0 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[2-(dimethylamino)ethoxy]phenylmethylene]-4-methyl-, (2Z)-2-butenedioate (9CI) (CA INDEX NAME)

CH 1

CRN 47451-15-0  
 CMF C20 H22 N2 O2 S



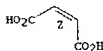
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L4 ANSWER 74 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

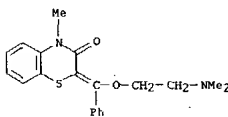
CH 2

CRN 110-16-7  
 CMF C4 H4 O4

Double bond geometry as shown.



RN 37142-85-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[2-(dimethylamino)ethoxy]phenylmethylene]-4-methyl-, hydrochloride (9CI) (CA INDEX NAME)

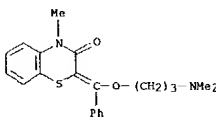


••• HCl

RN 37142-86-2 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-(dimethylamino)propoxy]phenylmethylene]-4-methyl-, (2Z)-2-butenedioate (9CI) (CA INDEX NAME)

CH 1

CRN 47494-87-1  
 CMF C21 H24 N2 O2 S

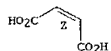


CH 2

CRN 110-16-7  
 CMF C4 H4 O4

11/18/2004

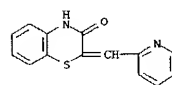
L4 ANSWER 74 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
Double bond geometry as shown.



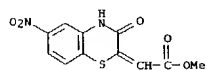
L4 ANSWER 75 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1971:476816 CAPLUS  
DOCUMENT NUMBER: 75:76816  
TITLE: Substituted 2H-1,4-benzothiazine derivatives  
INVENTOR(S): Krapcho, John  
PATENT ASSIGNEE(S): E. R. Squibb and Sons, Inc.  
SOURCE: Ger. Offen., 40 pp.  
CODEN: GWXXRX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| DE 2051474             | A    | 19710506 | DE 1970-2051474 | 19701020 |
| BR 6915342             | A0   | 19730313 | BR 1969-215342  | 19691219 |
| US 3746706             | A    | 19730717 | US 1970-35590   | 19700507 |
| HU 163349              | P    | 19730728 | HU 1970-30569   | 19701022 |
| NL 7015698             | A    | 19710503 | NL 1970-15698   | 19701027 |
| CH 543512              | A    | 19731214 | CH 1970-15877   | 19701027 |
| FR 2070172             | A1   | 19710910 | FR 1970-38889   | 19701028 |
| FR 2070172             | A5   | 19710910 |                 |          |
| GB 1334793             | A    | 19731024 | GB 1970-49269   | 19701028 |
| CA 948626              | A1   | 19740604 | CA 1970-96805   | 19701028 |
| JP 50022557            | B4   | 19750731 | JP 1970-95067   | 19701028 |
| BE 774835              | A1   | 19720503 | BE 1971-110068  | 19711103 |
| PRIORITY APPLN. INFO.: |      |          | US 1969-871976  | 19691028 |
|                        |      |          | US 1970-35590   | 19700507 |

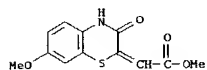
GI For diagram(s), see printed CA Issue.  
AB Reacting I with R3MgBr gave antiinflammatory II. I (R1 = C2H4NMe2, R2 = Ph, Y = S) was treated with MeMgBr in THF at 20° to yield II (R1 = C2H4NMe2, R2 = Ph, R3 = Ac, Y = S). An addnl. 16 examples involve this rearrangement in preparation  
IT 33216-62-5P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 33216-62-5 CAPLUS  
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-pyridinylmethylene)- (9CI) (CA INDEX NAME)



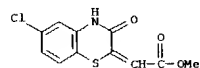
L4 ANSWER 76 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1971:449005 CAPLUS  
DOCUMENT NUMBER: 75:49005  
TITLE: Synthesis and central nervous system effects of some benzothiazinones  
AUTHOR(S): Heindel, Ned D.; Reid, Jack R.; Willis, Joseph E.  
CORPORATE SOURCE: Dep. Chem., Lehigh Univ., Bethlehem, PA, USA  
JOURNAL: Journal of Medicinal Chemistry (1971), 14(5), 453  
CODEN: JMCMAR; ISSN: 0022-2623  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
GI For diagram(s), see printed CA Issue.  
AB Six 2-carbomethoxy-methylene-3,4-dihydro-3-oxo-2H-benzo-1,4-thiazines were synthesized by condensing o-aminothiophenols with di-Me acetylene-dicarbonylate in MeOH, and tested in a neuropharmacol. mouse profile. Compound I was inactive and nontoxic at doses of 1000 mg/kg, whereas compound II induced a low order of sedativehypnotic activity at 1000 mg/kg but not at 300 mg/kg, is reflected in a depression of spontaneous motor activity and body tone and increases in passivity and pupil size. The most active compound was III which induced depression, catatonia, and decreased motor activity at doses as low as 100 mg/kg.  
IT 31385-17-8P 31385-18-9P 32723-06-1P 32723-08-3P 32816-83-4P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 31385-17-8 CAPLUS  
CN Acetic acid, (3,4-dihydro-6-nitro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester (9CI) (CA INDEX NAME)



RN 31385-18-9 CAPLUS  
CN Acetic acid, (3,4-dihydro-7-methoxy-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester (9CI) (CA INDEX NAME)

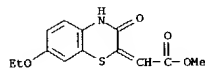


RN 32723-06-1 CAPLUS  
CN 2H-1,4-Benzothiazine-A2,α-acetic acid, 6-chloro-3,4-dihydro-3-oxo-, methyl ester (8CI) (CA INDEX NAME)

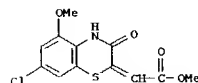


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L4 ANSWER 76 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
RN 32723-08-3 CAPLUS  
CN 2H-1,4-Benzothiazine-A2,α-acetic acid, 7-ethoxy-3,4-dihydro-3-oxo-, methyl ester (8CI) (CA INDEX NAME)



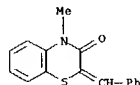
RN 32816-83-4 CAPLUS  
CN 2H-1,4-Benzothiazine-A2,α-acetic acid, 7-chloro-3,4-dihydro-5-methoxy-3-oxo-, methyl ester (8CI) (CA INDEX NAME)



11/18/2004

L4 ANSWER 77 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1971:53750 CAPLUS  
 DOCUMENT NUMBER: 74:53750  
 TITLE: Synthesis of 1,5-benzothiazepine derivatives. II  
 AUTHOR(S): Kugita, Hiroshi; Inoue, Hirozumi; Ikezaki, Muneyoshi;  
 Konda, Mikihiro; Takeo, Satoshi  
 CORPORATE SOURCE: Org. Chem. Res. Lab., Tanabe Seiyaku Co., Ltd.,  
 Saitama, Japan  
 SOURCE: Chemical & Pharmaceutical Bulletin (1970), 18(11),  
 2284-9  
 CODEN: CPBTAL; ISSN: 0009-2363

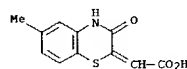
DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI For diagram(s), see printed CA Issue.  
 AB Et threo-2-hydroxy-3-aryl-(2-nitroarylthio)propionates (I) (aryl =  
 4-RC<sub>6</sub>H<sub>4</sub>, R = H or p-MeO) were obtained by the reaction of 4,2-X(O<sub>2</sub>N)C<sub>6</sub>H<sub>3</sub>OH  
 (X = H or Cl) and Et arylglycidates (aryl = 4-RC<sub>6</sub>H<sub>4</sub>, R = H or p-MeO) in the  
 presence of catalytic amount of NaHCO<sub>3</sub>. I was converted into  
 1,5-benzothiazepine derivs. (II), the configuration of which was  
 2,3-trans.  
 IT 30752-17-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 30752-17-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA  
 INDEX NAME)



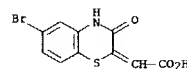
L4 ANSWER 78 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 78 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1971:42325 CAPLUS  
 DOCUMENT NUMBER: 74:42325  
 TITLE: Organic sulfur compounds. VII. Reactions of  
 benzothiazine hydroxamic acids  
 AUTHOR(S): Coutts, Ronald T.; Matthias, Sharon J.; Mah, E.;  
 Pound, N. J.  
 CORPORATE SOURCE: Fac. Pharm. Pharm. Sci., Univ. Alberta, Edmonton, AB,  
 Can.  
 SOURCE: Canadian Journal of Chemistry (1970), 48(23), 3727-32  
 CODEN: CJCHAG; ISSN: 0008-4042  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 74:42325

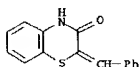
AB Treatment of (3,4-dihydro-4-hydroxy-3-oxo-2H-1,4-benzothiazin-2-yl)acetic  
 acid (I) with NaOH yields the corresponding lactam, i.e.  
 (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-yl)acetic acid, together with the  
 α,β-unsatd. acid, 3,4-dihydro-3-oxo-2H-1,4-benzothiazine-  
 Δ2,α-acetic acid. The 6-Me and 6-Br derivs. of I behaved  
 similarly when treated with NaOH but when 3,4-dihydro-4-hydroxy-3-oxo-2H-  
 1,4-benzothiazine was so treated a more complex reaction occurred. Me  
 (6-bromo-3,4-dihydro-4-hydroxy-3-oxo-2H-1,4-benzothiazin-2-yl)-acetate was  
 also treated with HCl. The 2 products isolated were (6-bromo-3,4-dihydro-  
 3-oxo-2H-1,4-benzothiazin-2-yl)acetic acid and (6-bromo-7-chloro-3,4-  
 dihydro-3-oxo-2H-1,4-benzothiazin-2-yl)acetic acid. The action of HCl on  
 3,4-dihydro-4-hydroxy-7-methyl-3-oxo-2H-1,4-benzothiazine also gave 2  
 products. One was the corresponding lactam the other was unexpected and  
 has been tentatively identified as bis[2-(3,4-dihydro-7-methyl-3-oxo-2H-  
 1,4-benzothiazine)].  
 IT 30321-26-7P 30321-95-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 30321-26-7 CAPLUS  
 CN 2H-1,4-Benzothiazine-Δ2,α-acetic acid, 3,4-dihydro-6-methyl-3-  
 oxo- (8CI) (CA INDEX NAME)



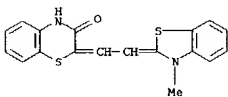
RN 30321-95-0 CAPLUS  
 CN 2H-1,4-Benzothiazine-Δ2,α-acetic acid, 6-bromo-3,4-dihydro-3-  
 oxo- (8CI) (CA INDEX NAME)



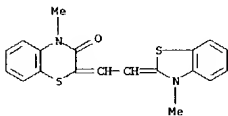
L4 ANSWER 79 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1971:13117 CAPLUS  
 DOCUMENT NUMBER: 74:13117  
 TITLE: Synthesis of 1,5-benzothiazepine derivatives. I  
 AUTHOR(S): Kugita, Hiroshi; Inoue, Hirozumi; Ikezaki, Muneyoshi;  
 Takeo, Satoshi  
 CORPORATE SOURCE: Org. Chem. Res. Lab., Tanabe Seiyaku Co., Ltd.,  
 Saitama, Japan  
 SOURCE: Chemical & Pharmaceutical Bulletin (1970), 18(10),  
 2028-37  
 CODEN: CPBTAL; ISSN: 0009-2363  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 74:13117  
 GI For diagram(s), see printed CA Issue.  
 AB Reaction of 2-aminothiophenol and Et phenylglycidate gave Et  
 2-hydroxy-3-(2-aminophenylthio)-3-phenylpropionate (I) and  
 2-phenyl-3-hydroxy-2,3-dihydro-1,5-benzothiazepin-4(5H)-one (II).  
 Hydrolysis of I gave the corresponding amino acid which was cyclized to  
 II. The reaction of 2-nitrothiophenol and Et 3-(4-methoxyphenyl)glycidate  
 was also studied. The rearrangement of II to III was observed  
 IT 24545-07-1P  
 RL: FORM (Formation, nonpreparative); PREP (Preparation)  
 (formation of, from dihydrohydroxyphenylbenzothiazepinone)  
 RN 24545-07-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)



L4 ANSWER 80 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1970:457129 CAPLUS  
 DOCUMENT NUMBER: 73:57129  
 TITLE: Effect of alkali on 8-benzoylaminothiacarbocyanine iodide  
 AUTHOR(S): Kiprianov, A. I.; Suleimanova, M. G.; Dyadyusha, G. G.  
 CORPORATE SOURCE: Inst. Org. Khim., Kiev, USSR  
 SOURCE: Ukrainskii Khimicheskii Zhurnal (Russian Edition) (1970), 36(3), 269-72  
 CODEN: UKZHAU; ISSN: 0041-6045  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 GI For diagram(s), see printed CA Issue.  
 AB Bis(3-methylbenzothiazole-2)-8-benzoylaminothiacarbocyanine iodide (I) (0.5 g) yielded, after refluxing for 10 min with 0.1 g NaOH in 150 ml EtOH, evaporation of the solvent, and chromatographic purification on Al2O3 (C6H6 followed by CHCl3), 0.12 g 2,3-dihydro-4-methyl-2[(3-methyl-2-benzothiazolinyldene)ethylidene]-1,4-benzothiazin-3-one (II), m. 206°. II was prepared for comparison by condensing o-MeNHC6H4SH with ClCH(CO2Et)2 in alc.-NEt3 to form 2-carbethoxy-4-methyl-2,3-dihydro-1,4-benzothiazin-3-one (III), b.p. 198°, which was condensed with IV in boiling PhNEt2 for 30 min. Using o-MeNHC6H4SH, the N-demethylated analogs of III, m. 145°, and of II, m. 274°,  $\lambda_{max}$  444 nm (EtOH), were similarly prepared, but attempts to methylate the latter to II were unsuccessful. A mechanism for the formation of II was proposed.  
 IT 28731-98-8P 29430-90-8P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 28731-98-8 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(3-methyl-2-benzothiazolinyldene)ethylidene]- (8CI) (CA INDEX NAME)



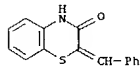
RN 29430-90-8 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[2-(3-methyl-2-benzothiazolinyldene)ethylidene]- (8CI) (CA INDEX NAME)



L4 ANSWER 81 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1970:21702 CAPLUS  
 DOCUMENT NUMBER: 72:21702  
 TITLE: 2H-1,4-Benzothiazin-3(4H)-ones  
 INVENTOR(S): Krapcho, John  
 PATENT ASSIGNEE(S): E. R. Squibb and Sons, Inc.  
 SOURCE: Ger. Offen., 27 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|-------------|------|----------|-----------------|----------|
| DE 1910302  | A    | 19690925 | DE 1969-1910302 | 19690228 |
| US 3635956  | A    | 19720118 | US 1968-709808  | 19680301 |
| GB 1265165  | A    | 19720301 | GB 1969-1265165 | 19690224 |
| FR 2003038  | A5   | 19691107 | FR 1969-5409    | 19690228 |
| FR 2003038  | B1   | 19730810 |                 |          |
| CH 493553   | A    | 19700715 | CH 1969-493553  | 19690228 |
| JP 49010671 | B4   | 19740312 | JP 1969-15839   | 19690301 |
| FR 2034449  | A5   | 19701211 | FR 1970-9282    | 19700316 |
| FR 2034449  | B1   | 19730810 |                 |          |

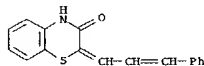
PRIORITY APPLN. INFO.: US 1968-709808 19680301  
 GI For diagram(s), see printed CA Issue.  
 AB The title compds. I (Y = S), useful as tranquilizers, were obtained by treating benzothiazin-3-one (II), prepared from 2-aminothiophenol (III) and chloroacetic acid (IV), with an aldehyde and reacting the alkylidenebenzothiazine with a dialkylaminoalkyl halide. Thus, 95 g IV in 300 ml PhMe was added to 250 g III in 500 ml PhMe with stirring, and the mixture refluxed 3 hr to give 64% II, m. 179-81°. II (45 g), 45 g BzH, and 100 ml Ac2O was heated, 50 ml Et3N added, and the mixture refluxed 7 hr to give 68% 2-benzylidene-2H-1,4-benzothiazin-3(4H)-one (V), m. 203-5°. Me2N(CH2)2Br (0.15 mole) in 200 ml PhMe was added to 4 g NaOH2 and 25.4 g V in 1 l. PhMe, the mixture stirred 30 min at room temperature and then 4 hr at 60-5°; treatment with HCl gave 56% I.HCl [X = H, Y = S, ANB = Me2N(CH2)2, p = 0, R1 = Ph, (R2R3 =) O], m. 234-6° (EtOH); the bromomethyl adduct, the 1-oxide, and the 1,1-dioxide were also prepared. Similarly prepared were the following I.HCl [Y = S, (R2R3 =) O] (X, ANB, p, R1, % yield, and m.p. given): H, Me2N(CH2)2, 0, Ph, 70, 191-3° (EtOH); H, Et2N(CH2)2, 0, Ph, -, 168-70° (MeCN); H, Me2N(CH2)2, 1, Ph, -, 234-6° (EtOH) (also reported was the corresponding o-methylcinnamylidene derivative). 2-Cinnamylidene-2H-1,4-benzothiazin-3(4H)-one, m. 268-70° (HCONMe2), was prepared and used as an intermediate.  
 IT 24545-07-1P 24545-11-7P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 24545-07-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)



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L4 ANSWER 80 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 81 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 RN 24545-11-7 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-cinnamylidene- (8CI) (CA INDEX NAME)



11/18/2004

L4 ANSWER 82 OF 90 CAPLUS COPYRIGHT 2004 ACS ON STN

ACCESSION NUMBER: 1969:449871 CAPLUS

DOCUMENT NUMBER: 71:49871

TITLE: Structure and biogenesis of pheomelanins. VII.

AUTHOR(S): Nicolaus, Rodolfo A.; Prota, Giuseppe; Santacrose,

Ciri; Scherillo, Giulia; Sica, Donato

CORPORATE SOURCE: Univ. Napoli, Naples, Italy

SOURCE: Gazzetta Chimica Italiana (1969), 99(4), 323-50

CODEN: GCITA9; ISSN: 0016-5603

DOCUMENT TYPE: Journal

LANGUAGE: Italian

GI For diagram(s), see printed CA Issue.

AB The structure of a yellow-orange pigment C23H20N4O9S2 (I), extracted by dilute

alkali from the feathers of the New Hampshire strain chicken was determined

I, heated in the presence of acid, is decarboxylated easily, yielding C23H40N4O7S2, having spectral and chromatographic properties identical with those of trichosiderins extracted from red human hair. The chemical behavior of some model compds. with trichosiderin-like chromophore was also investigated.

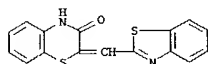
IT 23416-87-79

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 23416-87-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-benzothiazolylmethylene)- (8CI) (CA INDEX NAME)



L4 ANSWER 84 OF 90 CAPLUS COPYRIGHT 2004 ACS ON STN

ACCESSION NUMBER: 1967:94975 CAPLUS

DOCUMENT NUMBER: 66:94975

TITLE: On the structure of the product of the reaction of

2-aminothiophenol with diethyl acetylenedicarboxylate

Kalbag, S. M.; Wair, Mohann D.; Rajasopalan,

Parthasarathy; Talaty, Chandravadan N.

CORPORATE SOURCE: CIBA Res. Centre, Bombay, India

SOURCE: Tetrahedron (1967), 23(4), 1911-14

CODEN: TETRA9; ISSN: 0040-4020

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 66:94975

GI For diagram(s), see printed CA Issue.

AB The major product (m. 220-2°) of the reaction of 2-aminothiophenol with (.cpibond.CCO2Et)2 was conclusively shown to be 2-ethoxycarbonylmethylene-3,4-dihydro-3-oxo-2H-benzo-1,4-thiazine (I) and not 3-(ethoxycarbonylmethylene)-3,4-dihydro-2-oxo-2H-benzo-1,4-thiazine (II) as reported. CA 59, 39161.

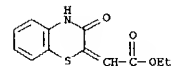
IT 13677-06-09

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 13677-06-0 CAPLUS

CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 83 OF 90 CAPLUS COPYRIGHT 2004 ACS ON STN

ACCESSION NUMBER: 1968:12929 CAPLUS

DOCUMENT NUMBER: 68:12929

TITLE: Amidalkylation of sulfazone

AUTHOR(S): Borovik, V. P.; Mamaev, V. P.

CORPORATE SOURCE: Inst. Org. Khim., Novosibirsk, USSR

SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1967), (2),

277-80

CODEN: KGSSAQ; ISSN: 0132-6244

DOCUMENT TYPE: Journal

LANGUAGE: Russian

GI For diagram(s), see printed CA Issue.

AB The title compound (I) (2 g.) was dissolved at 120° in a small amount of AcOH, and 2.12 g. PhCH(NHAc)2 added, the mixture heated 2 hrs., and AcOH evaporated. To the residue ether was added followed by CHCl3 to give 41.5% 2-(α-acetamidobenzyl)sulfazone (II), m. 161-3° (dioxane). To the CHCl3 filtrate petroleum ether was added to give 27% benzalsulfazone (III), m. 180°. III was also obtained by heating I with BzH and Et3N 6 hrs. III with EtOH and 10% NaOH gave 64% 2-(α-ethoxybenzyl)sulfazone, m. 161-3°, and with MeOH gave 63% 2-(α-methoxybenzyl)sulfazone, m. 143-5°. I (5 g.) with 5.31 g. PhCH(NHCONH2)2 was heated 2 hrs. to 125° in 50 ml. AcOH, then AcOH evaporated in vacuo, MeOH added, and after few days 2-(α-ureidobenzyl)sulfazone (IV) m. 153-4°, precipitated in 41.5% yield. IV was also obtained in 21.8% yield by heating I with PhCH(NCONH2)2 in absolute EtOH with HCl. II hydrolyzed with 20% HCl gave 64% I.

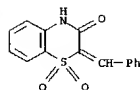
IT 16684-63-2P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 16684-63-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-benzylidene-, 1,1-dioxide (8CI) (CA INDEX NAME)



L4 ANSWER 85 OF 90 CAPLUS COPYRIGHT 2004 ACS ON STN

ACCESSION NUMBER: 1963:421754 CAPLUS

DOCUMENT NUMBER: 59:21754

ORIGINAL REFERENCE NO.: 59:3916b-d

TITLE: Reaction of diethyl acetylenedicarboxylate with

o-aminothiophenol

Iwanami, Yasuo

CORPORATE SOURCE: Sasaki Inst., Tokyo

SOURCE: Nippon Kagaku Zasshi (1962), 83, 100-2

CODEN: NPKZAZ; ISSN: 0369-5387

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.

AB o-H2NCGH4SH (3.8 g.) in 20 cc. EtOH was added to 5.1 g. EtO2CCCCO2Et in 30) cc. EtOH at room temperature, the temperature being raised to 53° by mixing, and the precipitate collected to give 3.6 g. 2-oxo-3-ethoxycarbonylmethylene-3,4-dihydro-2H-1,4-benzothiazine (I), m. 220.5-2.0°. The mother liquor was concentrated to give 2 g. 2-ethoxycarbonylmethylene-3-oxo-3,4-dihydro-2H-1,4-benzothiazine (II), m. 268-9°. I (0.5 g.) and 50 cc. 5N HCl were heated 5 hrs., but I was recovered. Hydrolysis of I by heating with 0.5N alc. KOH for 3 hrs. gave 38% 3-carboxymethylene analog of I, m. 288-90°. Similarly, hydrolysis of II gave 16% 2-carboxymethylene analog of II, m. 280-1°. Infrared spectra of I and II are given.

IT 13677-06-0, 2H-1,4-Benzothiazine-Δ2,α-acetic acid,

3,4-dihydro-3-oxo-, ethyl ester 63351-92-8, 2H-1,4-Benzothiazine-

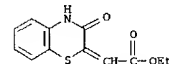
Δ2,α-acetic acid, 3,4-dihydro-3-oxo-

(preparation of)

RN 13677-06-0 CAPLUS

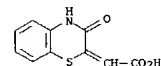
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl

ester (9CI) (CA INDEX NAME)



RN 63351-92-8 CAPLUS

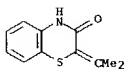
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)- (9CI) (CA INDEX NAME)



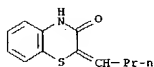
L4 ANSWER 86 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1962:416955 CAPLUS  
 DOCUMENT NUMBER: 57:16955  
 ORIGINAL REFERENCE NO.: 57:34541, 3455a-b  
 TITLE: Halogenated 1,4-benzothiazin-3-one derivatives  
 INVENTOR(S): Laubach, Gerald D.  
 PATENT ASSIGNEE(S): Chas. Pfizer & Co., Inc.  
 SOURCE: 3 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Unavailable  
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|------|
| US 2956055 |      | 19581010 | US              |      |

AB Using the procedure for I, dialkyl substituted compound were prepared which  
 on oxidation gave II. Thus, 0.32 mole of Et  $\alpha$ -chloroisobutyrate was used in place of Et  $\alpha$ -bromovalerate to give 2,2-dimethyl-1,4-benzothiazin-3-one (IV), m. 150-3°. IV (15 g.) in 100 ml. CH<sub>2</sub>Cl<sub>2</sub> was treated with 11.5 g. SO<sub>2</sub>Cl<sub>2</sub> at 0° to give 10.2 g. of chloro-2,2-dimethyl-1,4-benzothiazin-3-one (V), m. 190-2° (EtOAc). Oxidation of V was effected by treating 4 g. V in 60 ml. dioxane dropwise at 0° with 8.3 g. KMnO<sub>4</sub> in 93 ml. H<sub>2</sub>O and 208 ml. glacial AcOH. After agitation 2 hrs. at room temperature the excess KMnO<sub>4</sub> was destroyed by adding 30% H<sub>2</sub>O<sub>2</sub>, and the clear solution concentrated to give the dioxide m. 223-6° (EtOAc). II were therapeutically effective as muscle relaxants.  
 IT 55043-53-3, 2H-1,4-Benzothiazin-3(4H)-one, 2-isopropylidene-88611-54-5, 2H-1,4-Benzothiazin-3(4H)-one, 2-butylidene-92287-56-4, 2H-1,4-Benzothiazin-3(4H)-one, 2-propylidene- (preparation of)  
 RN 55043-53-3 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1-methylethylidene)- (9CI) (CA INDEX NAME)



RN 88611-54-5 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-butylidene- (7CI) (CA INDEX NAME)

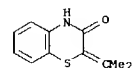


RN 92287-56-4 CAPLUS

L4 ANSWER 87 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1962:416954 CAPLUS  
 DOCUMENT NUMBER: 57:16954  
 ORIGINAL REFERENCE NO.: 57:34541-1  
 TITLE: Halogenated 1,4-benzothiazin-3-one derivatives  
 INVENTOR(S): Laubach, Gerald D.  
 PATENT ASSIGNEE(S): Chas. Pfizer & Co., Inc.  
 SOURCE: 4 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Unavailable  
 PATENT INFORMATION:

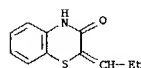
| PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE     |
|------------|------|----------|-----------------|----------|
| US 2956054 |      | 19601011 | US              | 19580811 |

GI For diagram(s), see printed CA Issue.  
 AB I and II were synthesized, where R<sub>1</sub>, R<sub>2</sub>, and R<sub>3</sub> were either H or alkyl groups having 1-3 carbon atoms, and X, H, halogen, alkoxy, alkyl, or alkanoyl group. I were obtained by treatment of 2-alkyl-1,4-benzothiazin-3-ones (III) with Cl or SO<sub>2</sub>Cl<sub>2</sub> in halogenated solvents such as methylene chloride and in the presence of HCl acceptor (carbonates of alkali or alkaline earth metals). Thus, III (alkyl = Pr) (IIIa) was first prepared by adding dropwise 18 g. KOH in absolute ethanol to 40 g. o-aminobenzenethiol under N. Et  $\alpha$ -bromovalerate (0.32 mole) was then added at 0°. The mixture was refluxed 3 hrs. After filtering off the insol. salt, the filtrate was concentrated in vacuo to a thick sirup which, on trituration with 50-50 ether-petr. ether, gave 61% IIIa, in. 77-9°. Halogenation of IIIa was carried out by treating a mixture of 9 g. IIIa and 30 g. CaCO<sub>3</sub> in 100 ml. of CH<sub>2</sub>Cl<sub>2</sub> at 0° while 6.75 g. SO<sub>2</sub>Cl<sub>2</sub> was added. The slurry was stirred 3 hrs. at room temperature, filtered, and recrystd. from EtOAc to give 7.3 g. I (R<sub>1</sub> = H, R<sub>2</sub> = R<sub>3</sub> = Me), m. 213-15°. The following (I) were prepared (R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, and m.p. given): H, Pr, H, 131-3°; H, Bu, H, 141-3°. I were useful as tranquilizers and in the treatment of the symptoms of bursitis, rheumatism, spasticity, strains, and the like.  
 IT 55043-53-3, 2H-1,4-Benzothiazin-3(4H)-one, 2-isopropylidene-88611-54-5, 2H-1,4-Benzothiazin-3(4H)-one, 2-butylidene-92287-56-4, 2H-1,4-Benzothiazin-3(4H)-one, 2-propylidene- (preparation of)  
 RN 55043-53-3 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1-methylethylidene)- (9CI) (CA INDEX NAME)

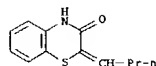


RN 88611-54-5 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-butylidene- (7CI) (CA INDEX NAME)

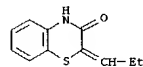
L4 ANSWER 86 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-propylidene- (7CI) (CA INDEX NAME)



L4 ANSWER 87 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 92287-56-4 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-propylidene- (7CI) (CA INDEX NAME)



L4 ANSWER 88 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1961:27911 CAPLUS

DOCUMENT NUMBER:

55:27911

ORIGINAL REFERENCE NO.:

55:5509b-1,5510a-d

TITLE:

Arylbenzo[e]-1,3-thiazine derivatives. III.

Verification of the position of the alkoxy groups in

arylbenzo[e]-1,3-thiazine derivatives by synthesis

Szabo, J.; Vinkler, E.

Med. Univ., Szeged, Hung.

Acta Chimica Academiae Scientiarum Hungaricae (1958),

17, 201-9

CODEN: ACASA2; ISSN: 0001-5407

DOCUMENT TYPE:

Journal

LANGUAGE:

German

AB

cf. CA 52, 6358c. The position of alkoxy groups in several dialkylbenzo[e]-1,3-thiazine derivs. was verified by oxidation of the benzothiazine bases to 4-oxo derivs., and comparison of these with the same products obtained from S-aryltiothiosalicylamides, the alkoxy positions of which were known. The S-aryltiothiosalicylamide derivs., which were prepared from 6,7-dialkoxy derivs. obtained from 6,3,4-HZN(MeO)2C6H2CO2H, were cyclized to 4-oxo derivs. according to Bohme and Schmidt (cf. CA 49, 1590a). Thus, 2.85 g. 2-phenyl-6,7-dimethoxybenzo[e]-1,3-thiazine in 10 ml. HOAc treated with 1.35 g. CrO3 in 1 ml. H2O and 2 ml. H2O gave after 10 min. 0.8 g. 2-phenyl-4-oxo-6,7-dimethoxybenzo[e]-1,3-thiazine (I), yellow needles, m. 189-90° (alc.). Similarly prepared were: from 0.86 g. 2-(3,4-dimethoxyphenyl)-6,7-dimethoxybenzo[e]-1,3-thiazine, 0.25 g. 2-(3,4-dimethoxyphenyl)-4-oxo-6,7-dimethoxybenzo[e]-1,3-thiazine (II), yellow needles, m. 217-18° (alc.); from 1.73 g. 2-phenyl-6,7-diethoxybenzo[e]-1,3-thiazine, 0.52 g. 2-phenyl-4-oxo-6,7-diethoxybenzo[e]-1,3-thiazine (III), yellow needles, m. 154-5° (alc.); 6,3,4-HZN(MeO)2C6H2CO2H (9.6 g.) in 100 ml. H2O and 10 ml.

concentrated

HCl added at 0° to 3.45 g. NaNO2 in 15 ml. H2O, the mixture stirred 1 hr. at 0°, added with stirring to a solution prepared from 13 g. Na2S, 15 ml. H2O, and 1.73 g. S, treated with 2.11 g. NaOH in 100 ml. H2O and with 50 g. crushed ice, the mixture stirred 3 hrs. until N evolution ceased, acidified with HCl, the precipitate filtered off, washed with H2O,

dissolved in

dilute NaHCO3, treated with C, precipitated with concentrated HCl,

filtered, washed with

H2O, suspended in 50 ml. HOAc, 2 g. Zn added, the mixture refluxed 3 hrs.,

cooled, centrifuged, the precipitate heated 15 min. with 10 g. NaOH in 50

ml.

H2O, filtered, the solution acidified with HCl, and the precipitate

filtered off,

washed with H2O, and dried gave 4.6 g. 4,5-dimethoxythiosalicylic acid

(IV), needles, m. 184-5° (alc.). IV (4.3 g.) in 25 ml. alc.

treated with a saturated alc. iodine solution until just colored brown, H2O

added, the precipitate formed filtered off, washed with 50% alc., and dried

at

105° gave 3.95 g. 4,4',5,5'-tetramethoxydiphenyl

disulfide-2,2'-dicarboxylic acid (V), needles, m. 248-50° (alc.).

V (8.52 g.) dissolved on the H2O bath in a solution of 4 g. KMnO4 in 30 ml.

H2O, evaporated to dryness at 105°, the residue pulverized, suspended

in 50 ml. C6H6, gradually treated with 10 g. SOCl2, refluxed 30 min., the

solvent and SOCl2 distilled in vacuo, the mixture cooled, and the crystals

L4 ANSWER 88 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

formed washed with 15-20 ml. petr. ether gave 7.2 g. 4,4',5,5'-tetramethoxydiphenyl disulfide-2,2'-dicarbonyl chloride (VI), yellow needles, m. 147-8° (C6H6). VI (6.95 g.) treated in 60 ml. C6H6 satd. with dry NH3, gave 5.2 g. 4,4',5,5'-tetramethoxydiphenyl disulfide-2,2'-dicarboxamide (VII), needles, m. 221-3° (alc.). VII (4.24 g.) in 20 ml. HOAc treated with 1 g. Zn powder, and the mixt. refluxed 1 hr. gave 2.55 g. 4,5-dimethoxythiosalicylamide (VIII), yellow needles, m. 169-70° (alc.). VIII (2.13 g.) in 8 ml. abs. C5H5N gradually treated with 1.4 g. BzCl, stirred 30 min., poured into dil. H2SO4 and crushed ice, the product filtered off, washed with H2O, and dried gave 2.3 g. 5-benzoyl-4,5-dimethoxythiosalicylamide (IX), needles, m. 179-80° (alc.). Two-thirds of a soln. of 1.59 g. IX in 20 ml. abs. xylene distd. with slow introduction of dry HCl, the remainder of the solvent distd. in vacuo after shutting off the HCl, the residue dissolved in C6H6, washed with N NaOH and H2O, dried, the solvent distd., and the residue crystd. from alc. gave 0.8 g. I, m. 189-90°. VIII (1.07 g.) treated with 3,4-(MeO)2C6H3COCl as in the prepn. of IX gave 1.3 g. S-veratroyl-4,5-dimethoxythiosalicylamide (X), needles, m. 178-9° (alc.). X (0.95 g.) treated as in the prepn. of I gave 0.4 g. II, m. 217-18° (alc.). o-C6H4(OEt)2 (41.5 g.) and 45 g. PhNMeCO in 51 g. POCl3 refluxed 90 min. on a H2O bath, the mixt. poured into 50 ml. H2O, extd. with 200 ml. Et2O, washed with H2O, shaken 3 hrs. with 40 g. NaHSO3 in 120 ml. H2O, the aq. phase sepd., treated with solid Na2CO3, the freed aldehyde extd. with Et2O, the Et2O layer washed with H2O, dried, the solvent distd., and the residue distd. in vacuo gave 26.6 g. 3,4-(EtO)2C6H3CHO (XI), bp 139-40°, nD15 1.557, d21.5 1.101. XI (38.8 g.) nitrated with 60.5 g. concd. HNO3 gave 43 g. 6,3,4-O2N(EtO)2C6H2CHO (XII), yellow needles, m. 95-6° (alc.). XII (23.9 g.) and 12 g. NaOH in 200 ml. H2O warmed on the H2O bath, gradually treated with 80 g. KMnO4 in 600 ml. H2O until decolorization of the permanganate took place, the soln. filtered hot and acidified with concd. HCl gave 12.1 g. 6,3,4-O2N(EtO)2C6H2CO2H (XIII), needles, m. 142-3° (C6H6). XIII (11.95 g.) in 250 ml. alc. hydrogenated at 50° and atm. pressure with 0.05 g. Pd-C gave 10.1 g. 6,3,4-HZN(EtO)2C6H2CO2H (XIV), prisms, m. 135-6° (decomp.) (alc.). XIV (9 g.) treated as in the prepn. of IV gave 4 g. 4,5-diethoxythiosalicylic acid (XV), needles, m. 202-3° (alc.). XV (3.63 g.) treated as in the prepn. of V gave 3.1 g. 4,4',5,5'-tetraethoxydiphenyl disulfide-2,2'-dicarboxylic acid (XVI), needles, m. 239-40° (alc.). XVI (9.25 g.) treated as in the prepn. of VI gave 7.4 g. 4,4',5,5'-tetraethoxythiosalicylamide (XVII), needles, m. 196-9° (C6H6 and petr. ether). XVII (5.19 g.) treated as in the prepn. of VII gave 4 g. 4,4',5,5'-tetraethoxydiphenyl disulfide-2,2'-dicarboxamide (XVIII), needles, m. 219-20° (C6H6). XVIII (3.61 g.) treated as in the prepn. of VIII gave 2.5 g. 4,5-diethoxythiosalicylamide (XIX), platelets, m. 160-1° (alc.). XIX (2.41 g.) treated as in the prepn. of IX gave 2.14 g. S-benzoyl-4,5-diethoxythiosalicylamide (XX), needles, m. 179-80° (alc.). XX (1.73 g.) treated as in the prepn. of I gave 0.8 g. III, m. 154-5° (alc.).

IT

50392-22-3, 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-phenylidene)-

54874-85-0, 2H-1,4-Benzothiazin-3(4H)-one, 2-p-chlorobenzylidene-

54913-29-0, 2H-1,4-Benzothiazin-3(4H)-one, 2-o-chlorobenzylidene-

100914-77-0, 2H-1,4-Benzothiazin-3(4H)-one, 2-(3,4-

dichlorobenzylidene)- 101442-51-7, 2H-1,4-Benzothiazin-3(4H)-

one, 2-veratrylidene- 101727-44-0, 2H-1,4-Benzothiazin-3(4H)-

L4 ANSWER 88 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

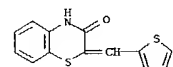
one, 2-piperonylidene- 101884-21-3, 2H-1,4-Benzothiazin-3(4H)-

one, 2-(1-naphthylmethylene)-

(prepn. of)

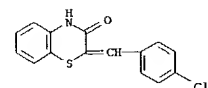
RN 50393-32-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-thienylmethylene)- (9CI) (CA INDEX NAME)



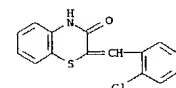
RN 54874-85-0 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]- (9CI) (CA INDEX NAME)



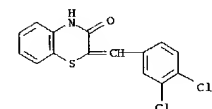
RN 54913-29-0 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-chlorophenyl)methylene]- (9CI) (CA INDEX NAME)



RN 100914-77-0 CAPLUS

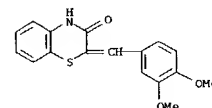
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(3,4-dichlorobenzylidene)- (6CI) (CA INDEX NAME)



RN 101442-51-7 CAPLUS

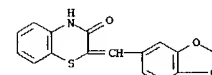
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-veratrylidene- (6CI) (CA INDEX NAME)

L4 ANSWER 88 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



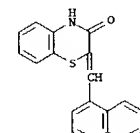
RN 101727-44-0 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-piperonylidene- (6CI) (CA INDEX NAME)



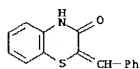
RN 101884-21-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1-naphthalenylmethylene)- (9CI) (CA INDEX NAME)





L4 ANSWER 89 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1961:27910 CAPLUS  
 DOCUMENT NUMBER: 55:27910  
 ORIGINAL REFERENCE NO.: 55:5508h-1,5509a-b  
 TITLE: Preparation of some 2-aryliden-3,4-dihydro-3-oxobenzothiazines  
 1,4-thiazines  
 AUTHOR(S): Baliah, V.; Rangarajan, T.  
 CORPORATE SOURCE: Annamalai Univ., Annamalai Nagar, India  
 SOURCE: Journal of the Chemical Society, Abstracts (1960)  
 4703-4  
 CODEN: JCSAAZ; ISSN: 0590-9791  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable  
 AB o-OZNC6H4SCH2CO2H (I) (4.26 g.), 1.5 g. NH4OAc, 0.5 g. piperidine, and the aldehyde refluxed 20 hrs., cooled, extracted with Et2O, the Et2O exts. concentrated, the residue dissolved in aqueous NaHCO3, filtered, extracted with Et2O and the aqueous layer neutralized with 50% H2SO4 gave o-OZNC6H4SC(=CHPh)CO2H (II) (R, 1 yield, and m.p. given): Ph, 48, 184-6°; p-MeC6H4, 24, 194-7°; o-ClC6H4, 54, 215-17°; p-ClC6H4, 62, 121-14°; 3,4-Cl2C6H3, 49, 194-6°; o-MeOC6H4, 50, 202-4°; p-MeOC6H4, 33, 198-200°; 3,4-(MeO)2C6H3, 22, 189-90°; 3,4-CH2O2C6H3, 25, 232-5°; o-OZNC6H4, 14, 236-9°; m-OZNC6H4, 30, 194-6°; p-OZNC6H4, 32, 206-8°; α-naphthyl, 24, 220-5°; 2-thienyl, 38, 232-5°. Under the same conditions, o-HOC6H4CHO and I gave 3-(o-nitrophenylthio)coumarin, yellow needles, m. 223-5° (decomposition). To 0.0015 mole II in 15 ml. AcOH under reflux was added 2 g. Zn dust in small portions, the whole filtered and the filtrate diluted with H2O to give the  
 2-aryliden-3,4-dihydro-3-oxobenzothiazines (aryliden = RCH) (R in 2-aryliden group and m.p. given): Ph, 200-2°; p-MeC6H4, 232-5°; o-ClC6H4, 225-7°; p-ClC6H4, 245-7°; 3,4-Cl2C6H3, 245-7°; o-MeOC6H4, 214-16°; p-MeOC6H4, 207-8°; 3,4-(MeO)2C6H3, 232-4°; 3,4-CH2O2C6H3, 212-14°; α-naphthyl, 223-5°; 2-thienyl, 233-5°.  
 IT 24545-07-1, 2H-1,4-Benzothiazin-3(4H)-one, 2-benzylidene- (preparation of)  
 RN 24545-07-1 CAPLUS  
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)



L4 ANSWER 90 OF 90 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1954:77651 CAPLUS  
 DOCUMENT NUMBER: 48:77651  
 ORIGINAL REFERENCE NO.: 48:13692g-i,13693a-c  
 TITLE: Condensation of acetylenedicarboxylic acid with o-aminophenyl mercaptans  
 AUTHOR(S): Mushkalo, L. K.; Bezemskaya, V. A.  
 CORPORATE SOURCE: Kiev State Univ.  
 SOURCE: Ukrain'skii Khimichnii Zhurnal (1952), 18, 163-7  
 CODEN: UKHZAS; ISSN: 0372-4190  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 GI For diagram(s), see printed CA Issue.  
 AB Cf. ibid. 17, 751(1951). Condensation of o-aminophenyl mercaptans with (,tp)bond.CCO2H)2 (I) and its di-Me ester (II) was examined with the following results. Mixing Et2O solns. of 4.56 g. I and of 5 g. o-H2NC6H4SH resulted in an exothermic reaction which rapidly yielded 98% 3-oxo-2-(carboxymethylene)-3,4-dihydro-2H-1,4-benzothiazine (III) (o-C6H4.NH.CO.C(=CHCO2H).5, yellow, decompose 278° (from BuOH); this converted to Ag salt by evaporation with NH4OH, followed by treatment with AgNO3, gave on heating with MeI 61% Me ester, decompose 264° (from Me2CO). A similar reaction of II gave 96% of the same Me ester, m. 264° (decomposition). Hydrogenation of III over Raney Ni in NaOH solution gave 70% 3-oxodihydrobenzothiazine-2-acetic acid (IV), m. 196°. Mixing Et2O solns. of I and o-MeNHC6H4SH similarly gave 81% 4-Me derivative of III, yellow, decompose 245° (from EtOH), whose Ag salt with MeI gave the Me ester, m. 144° (from Me2CO), also in 91% yield by similar condensation of II. Hydrogenation of the acid as above gave 51% 4-Me derivative of IV, m. 140° (from EtOH), an authentic specimen of which resulted in 58% yield on heating 0.42 g. maleic acid with 0.5 g. o-MeNHC6H4SH 15 min. on steam bath.  
 IT 63351-92-8, 2H-1,4-Benzothiazine-2,4-acetic acid,  
 3,4-dihydro-3-oxo- (and derivs.)  
 RN 63351-92-8 CAPLUS  
 CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)- (9CI) (CA INDEX NAME)

